

FIG. 1

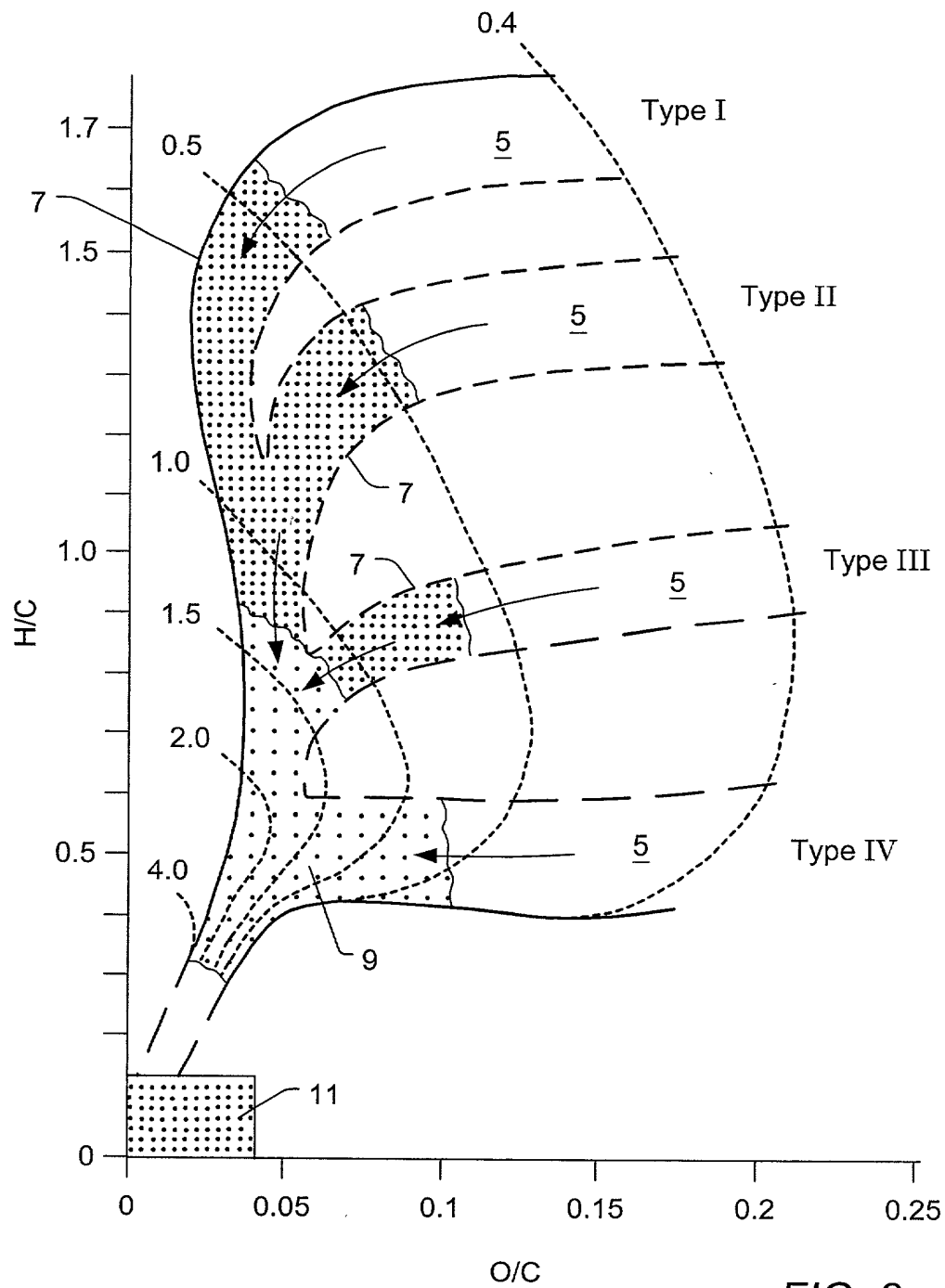
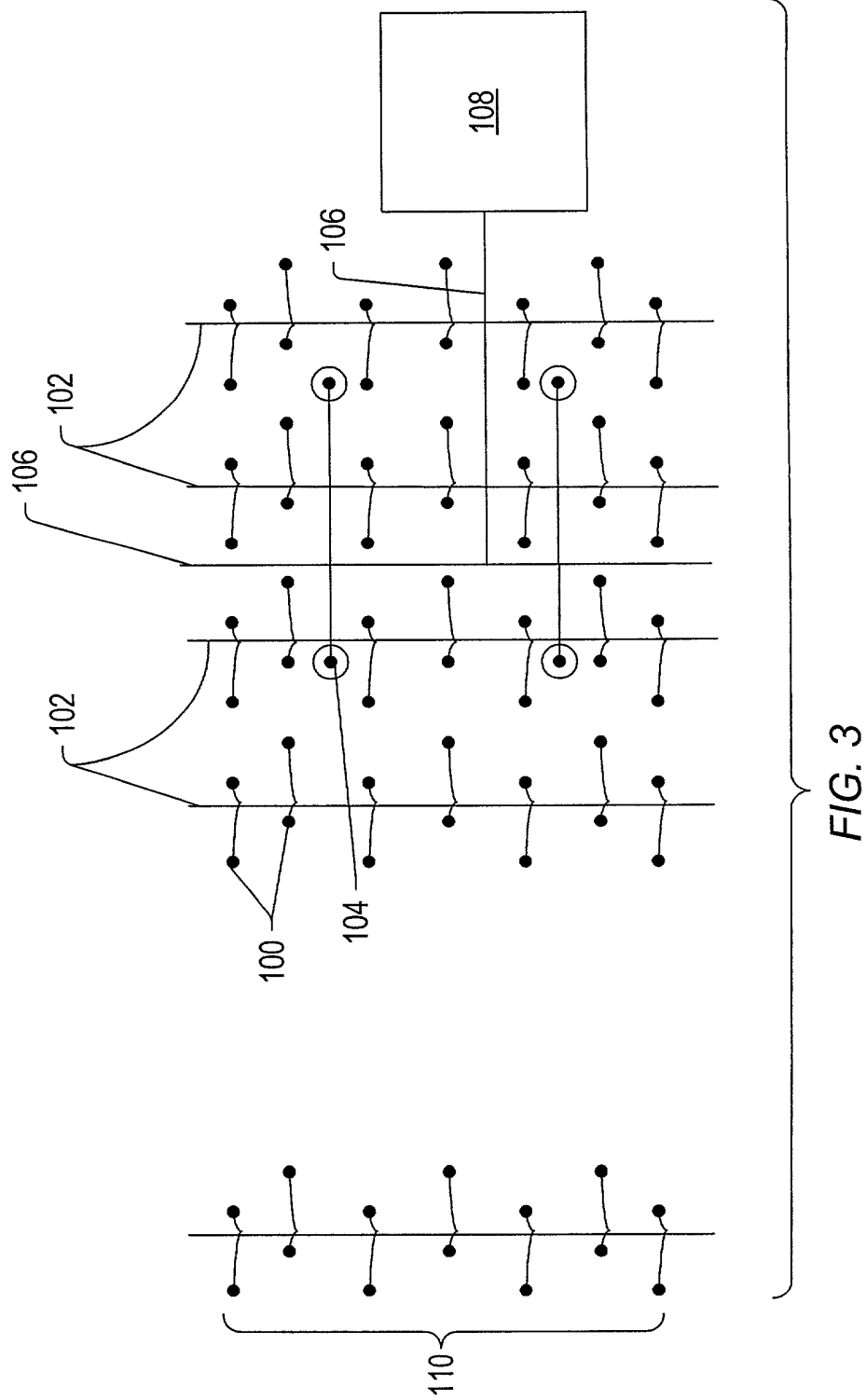


FIG. 2



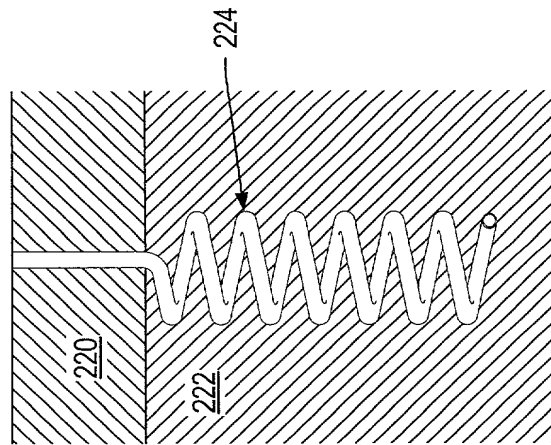


FIG. 3a

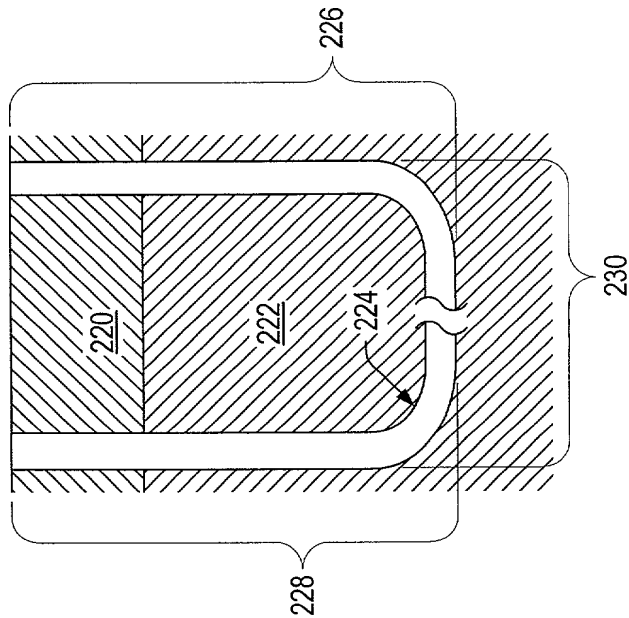


FIG. 3b

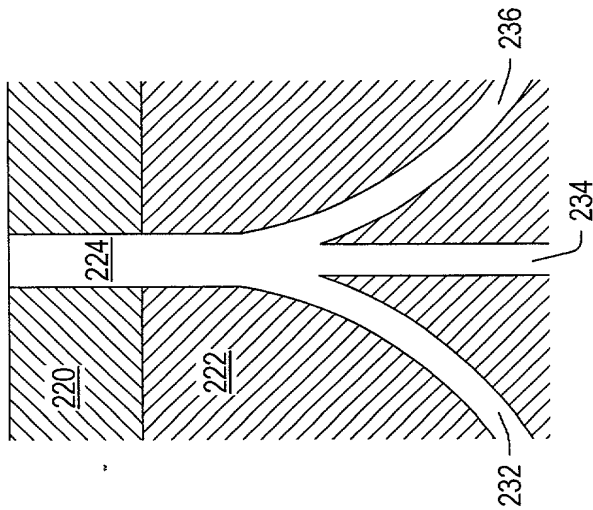
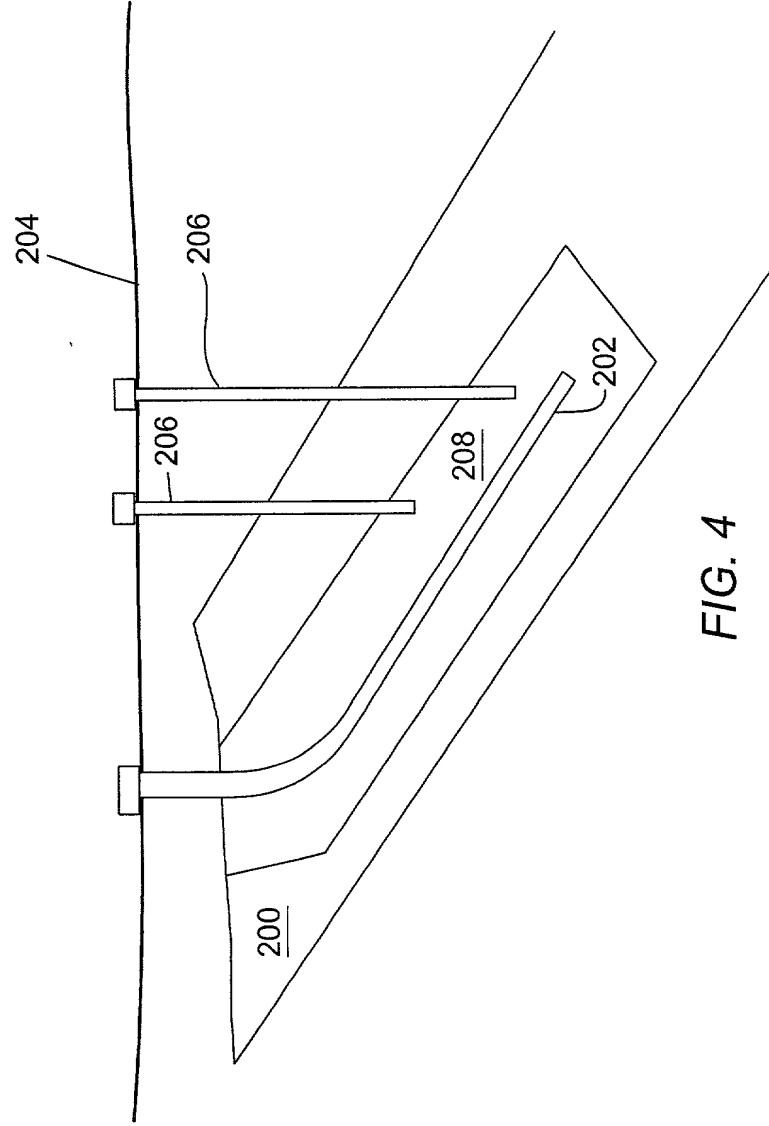
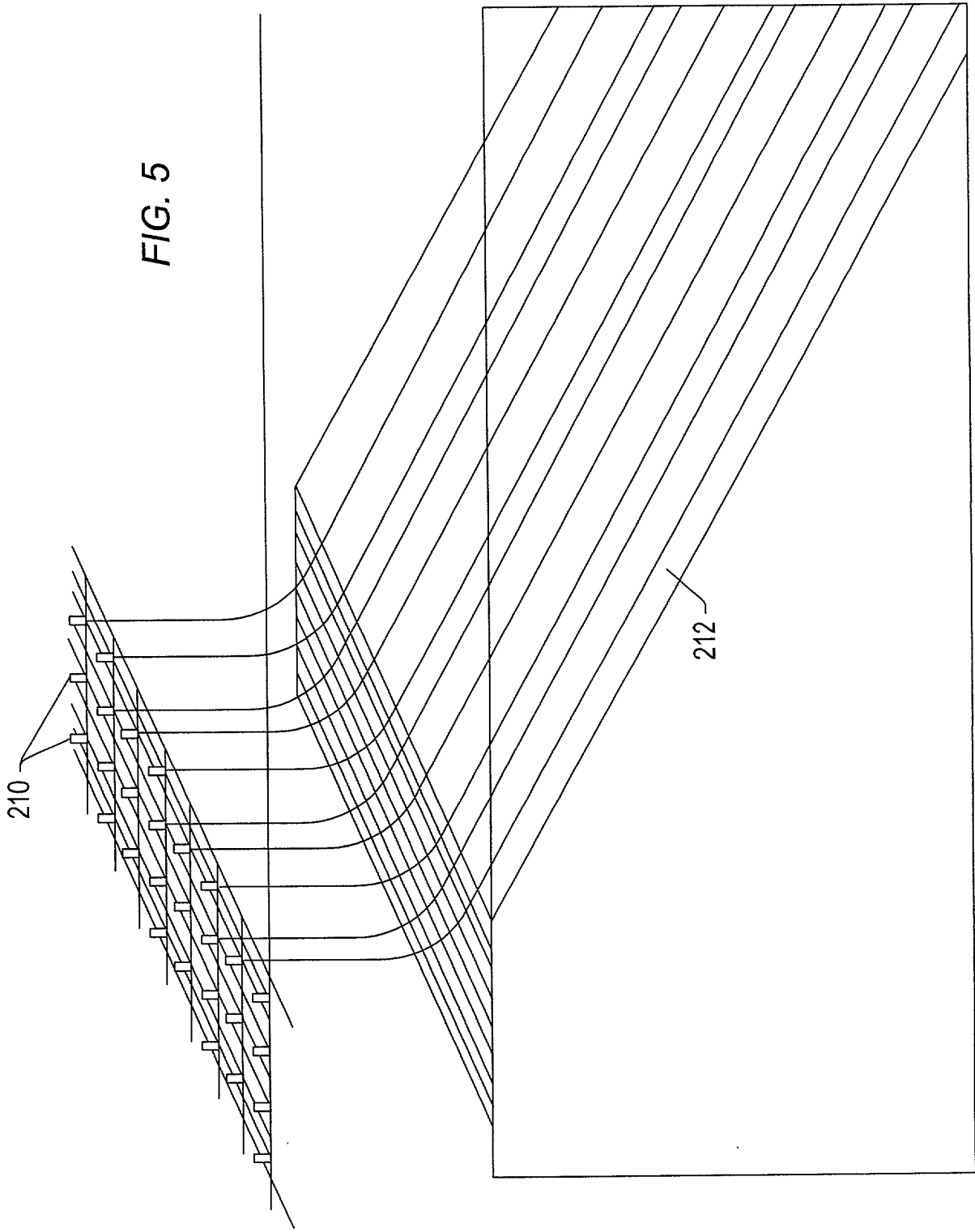


FIG. 3c





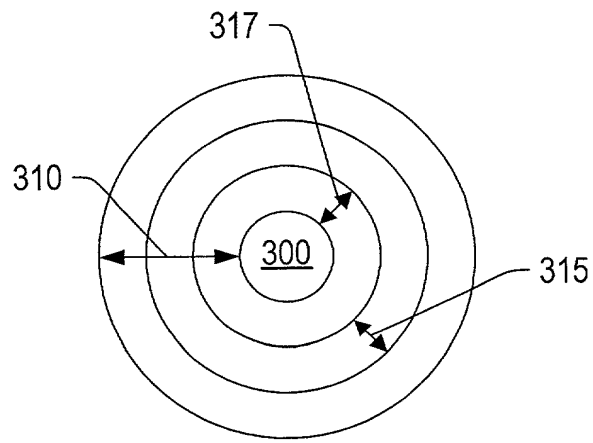


FIG. 6

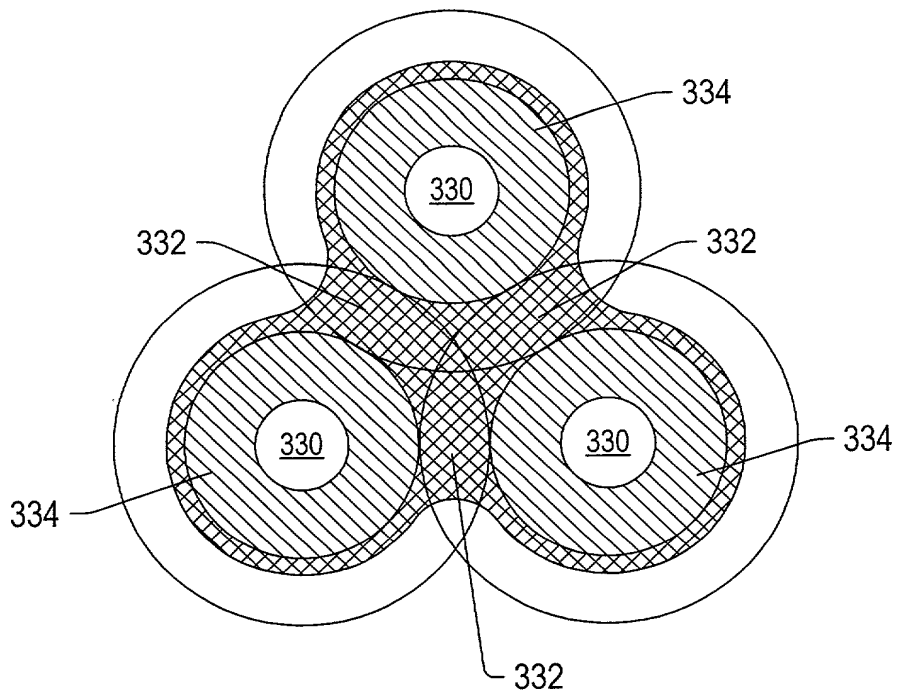


FIG. 7

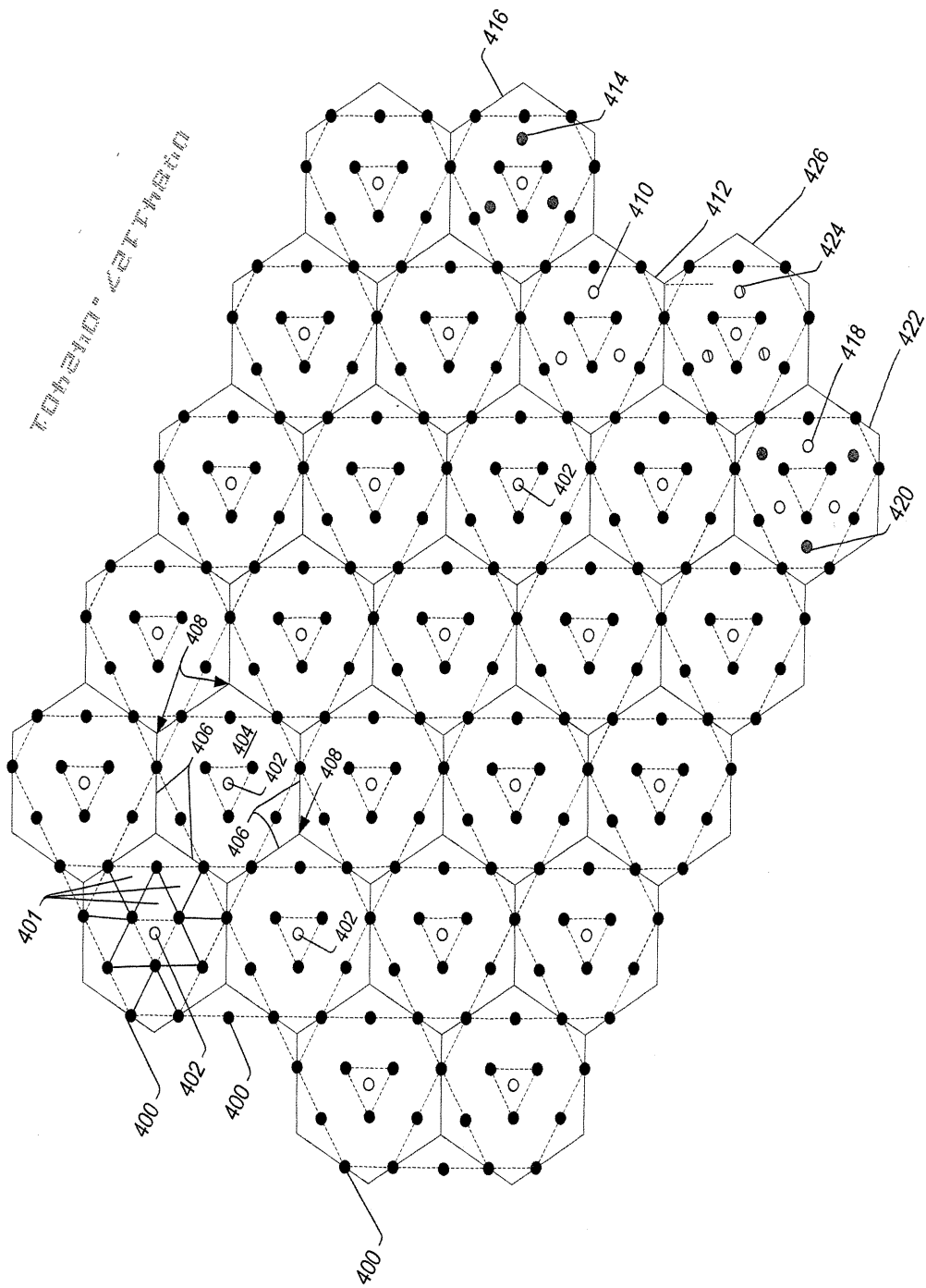


FIG. 8

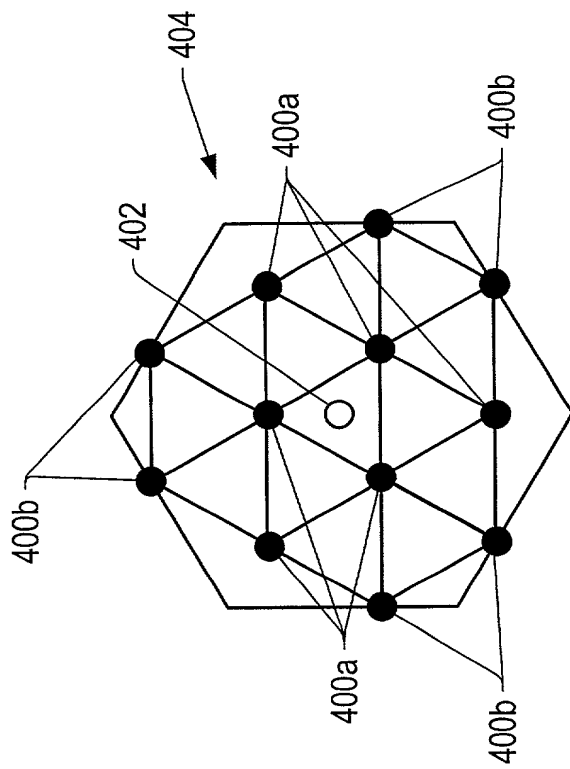


FIG. 9

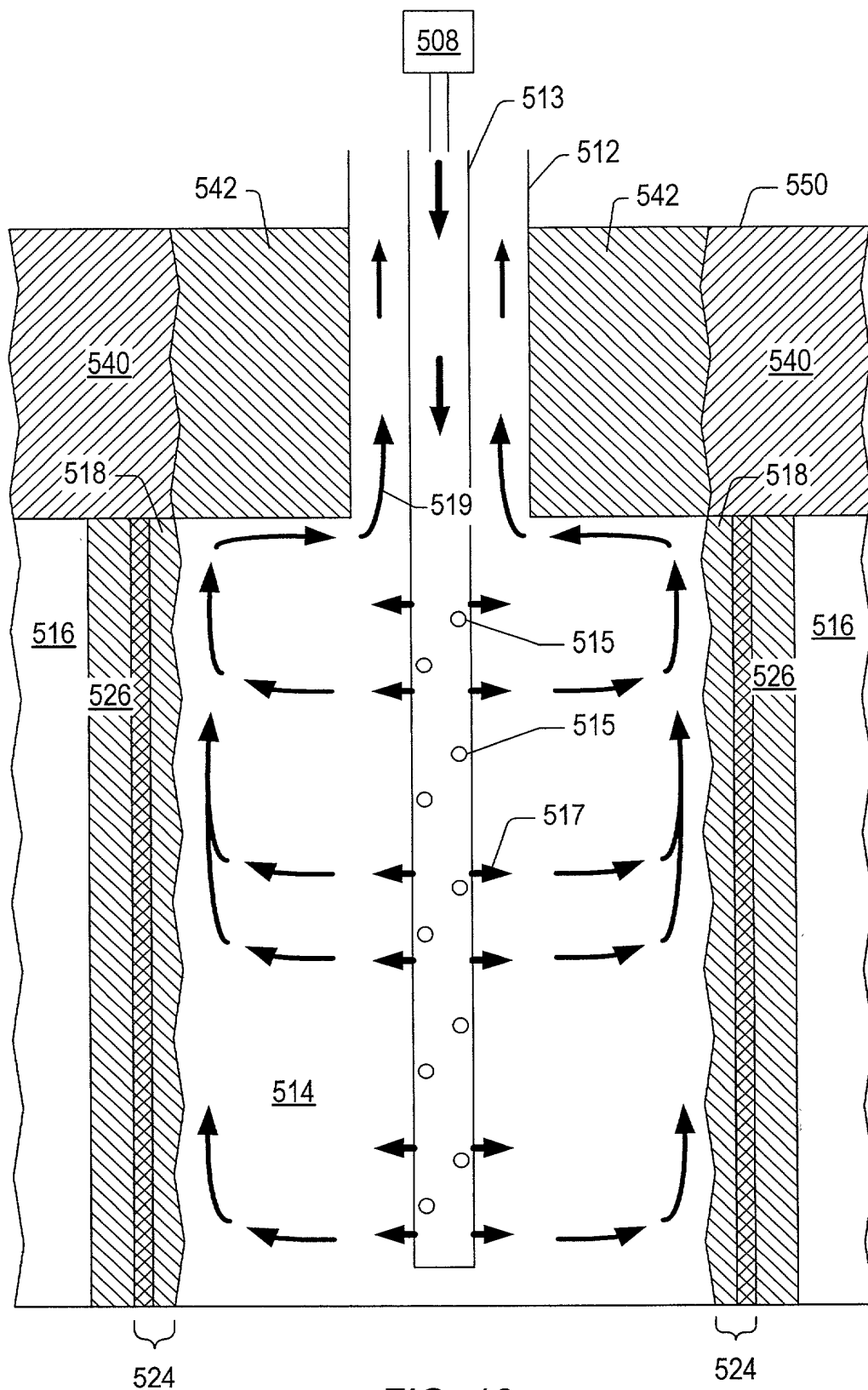


FIG. 10

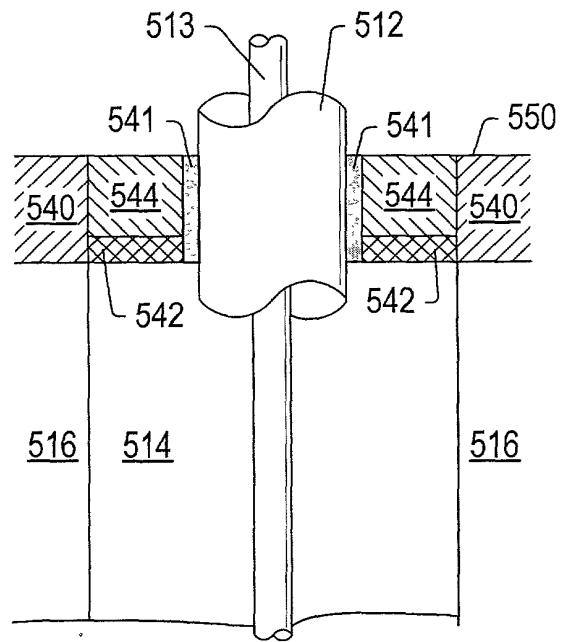


FIG. 11

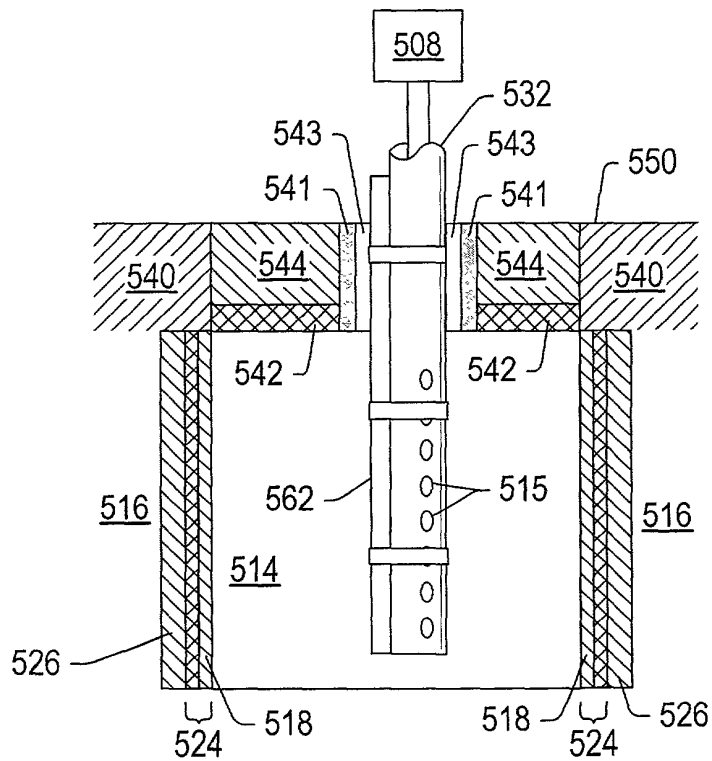


FIG. 12

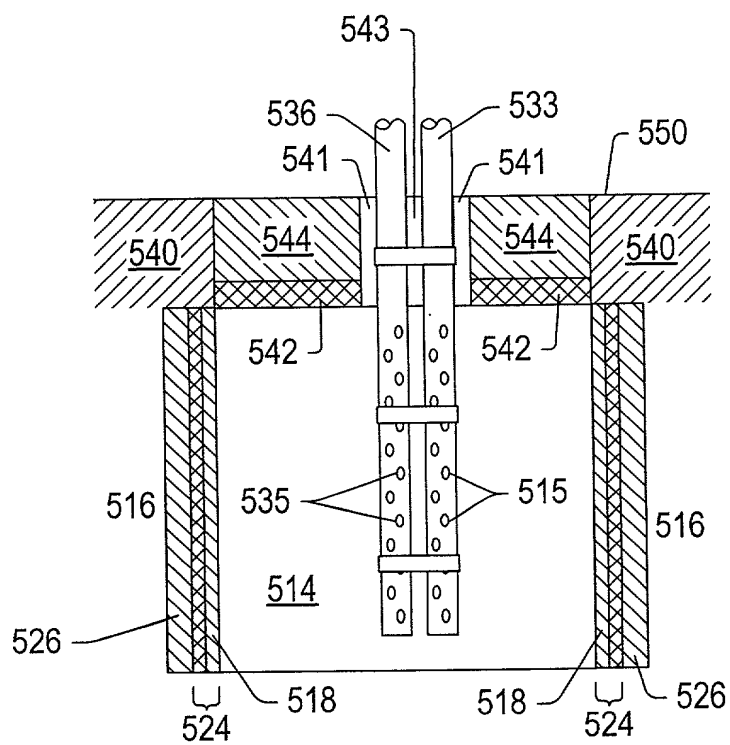


FIG. 13

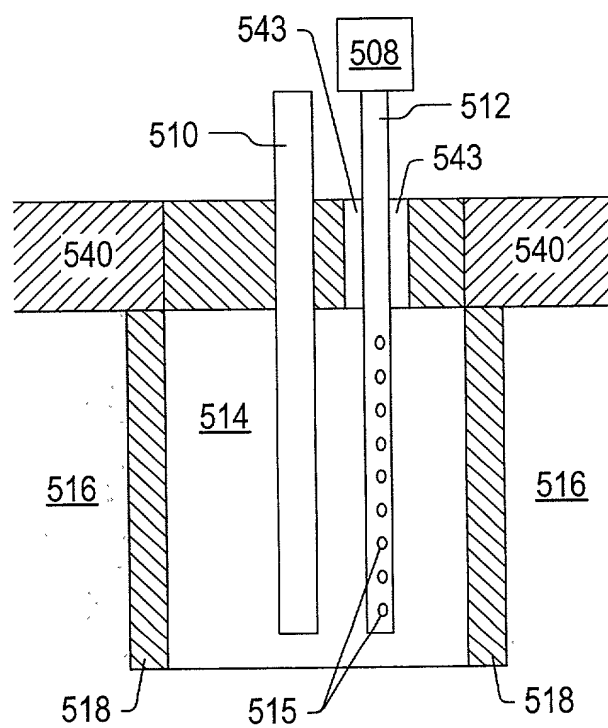


FIG. 14

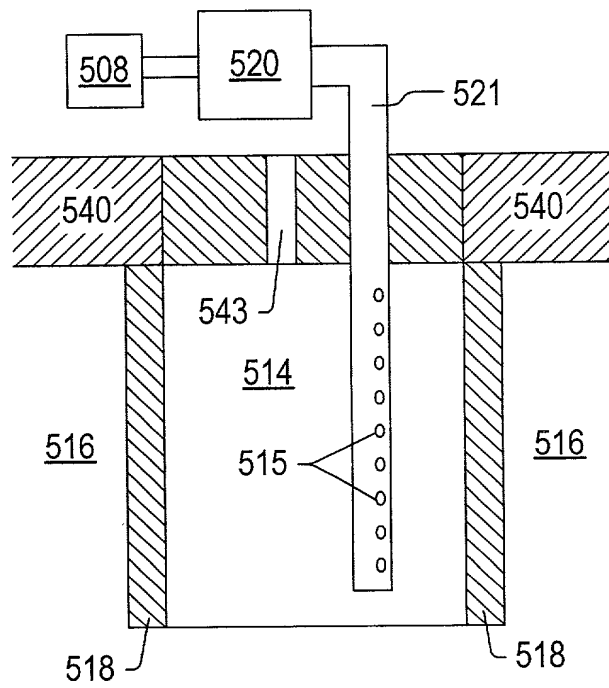


FIG. 15

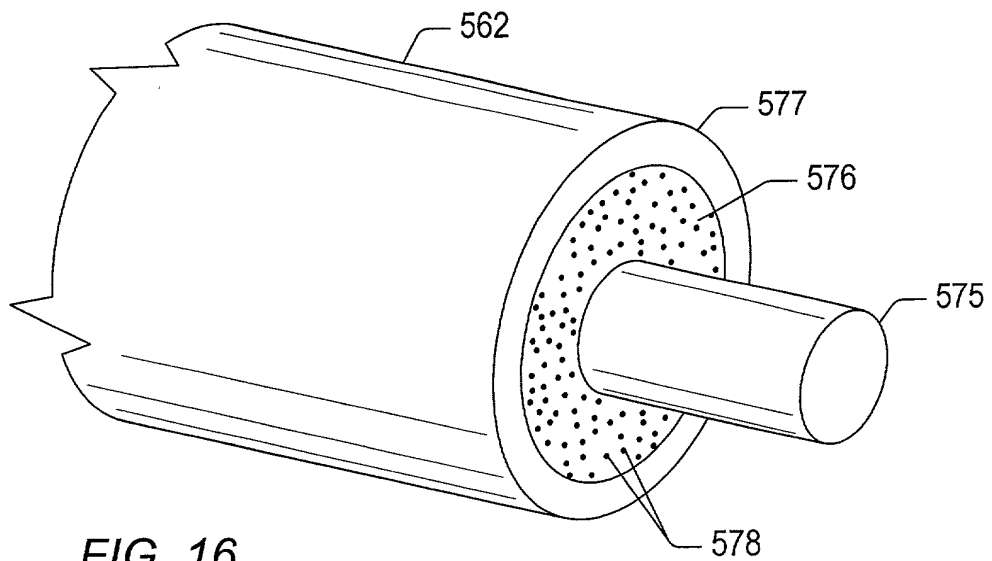


FIG. 16

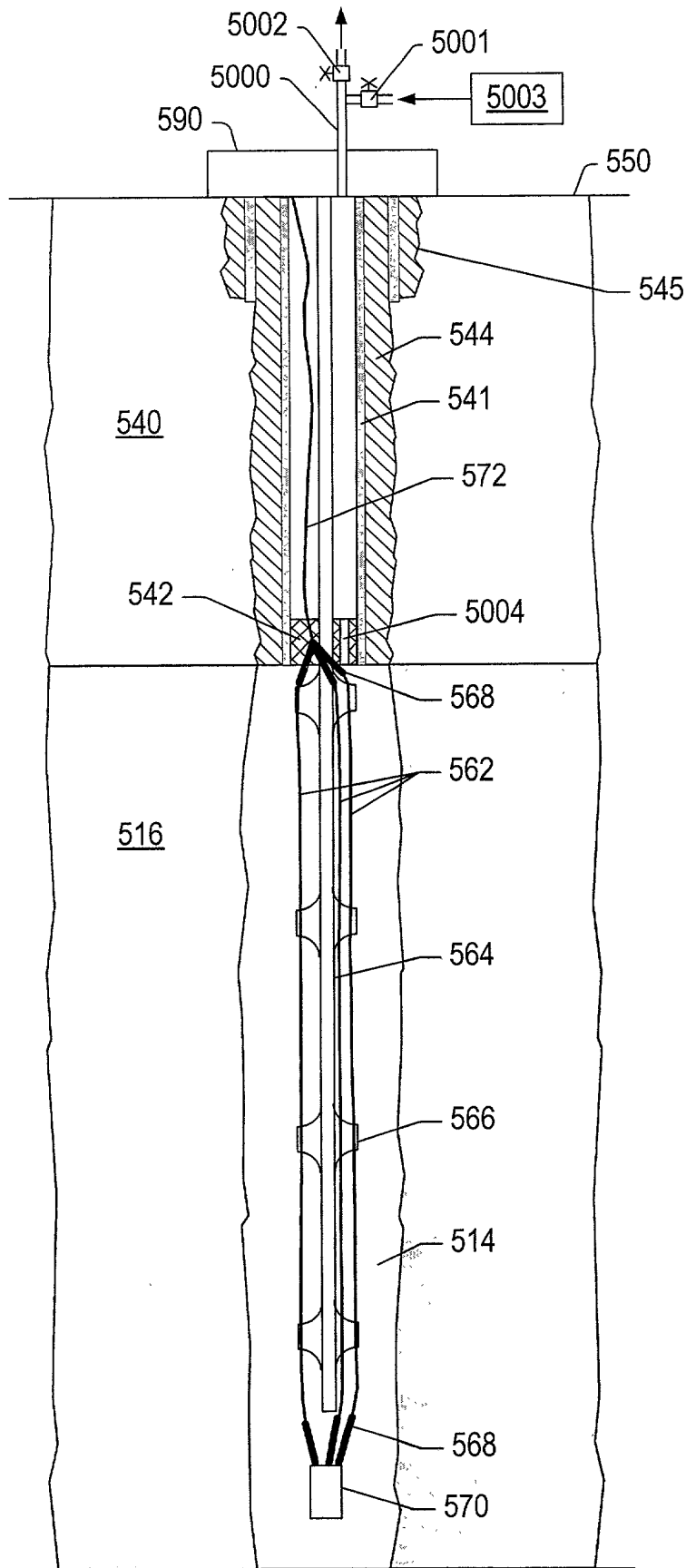


FIG. 17

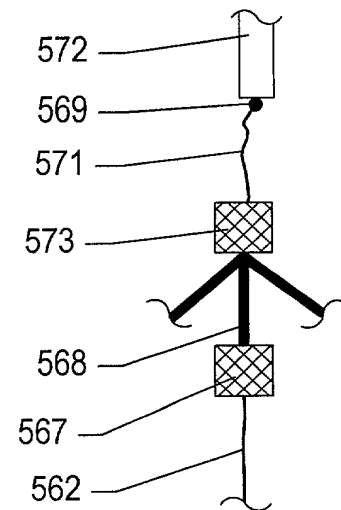


FIG. 17A

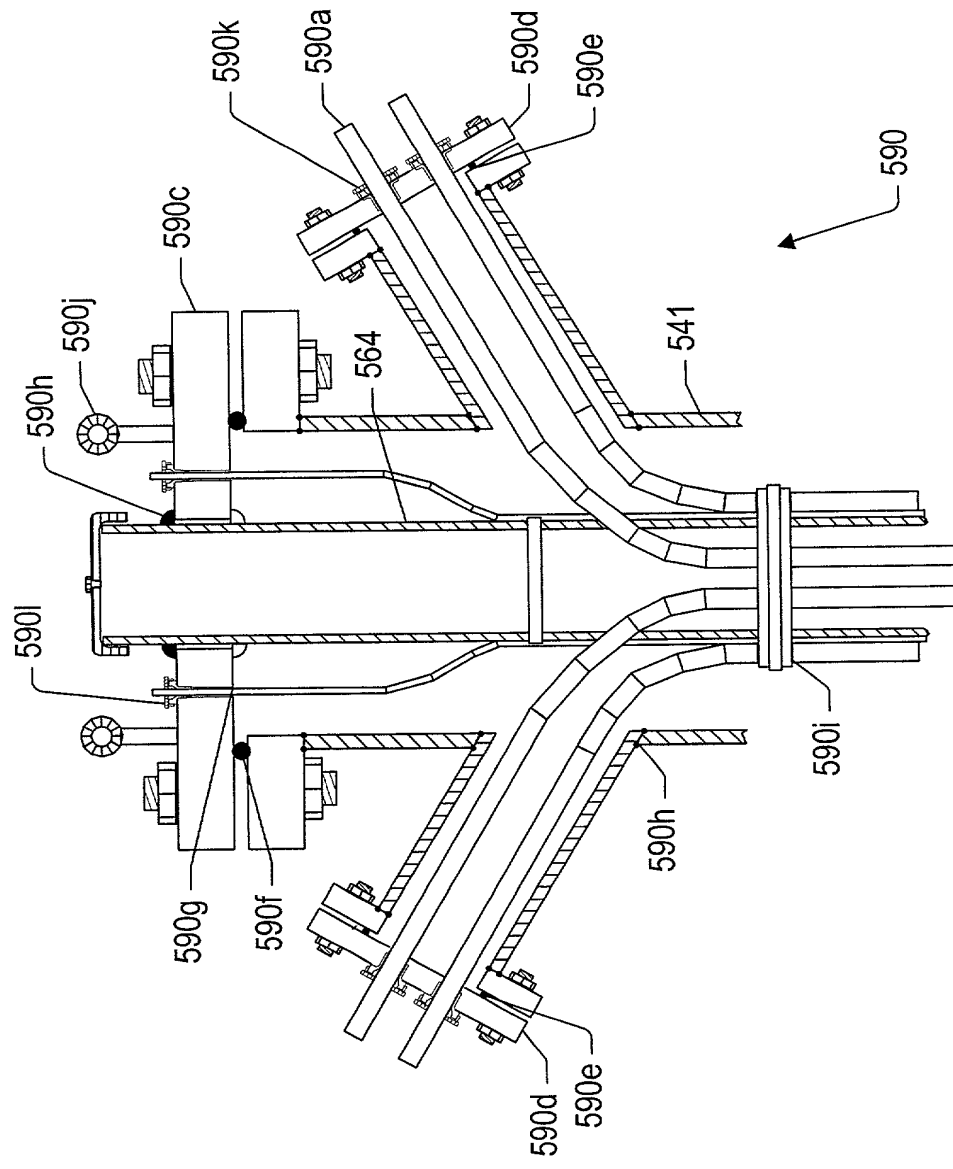


FIG. 18

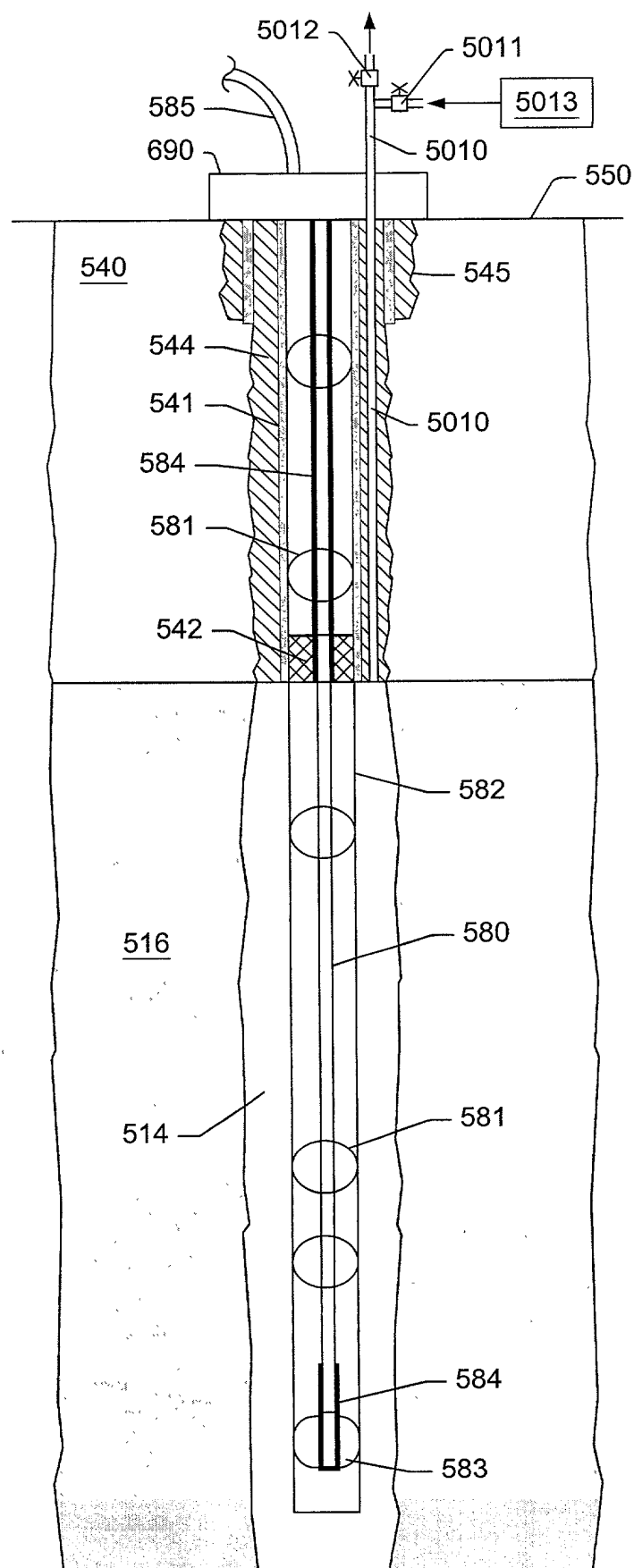


FIG. 19

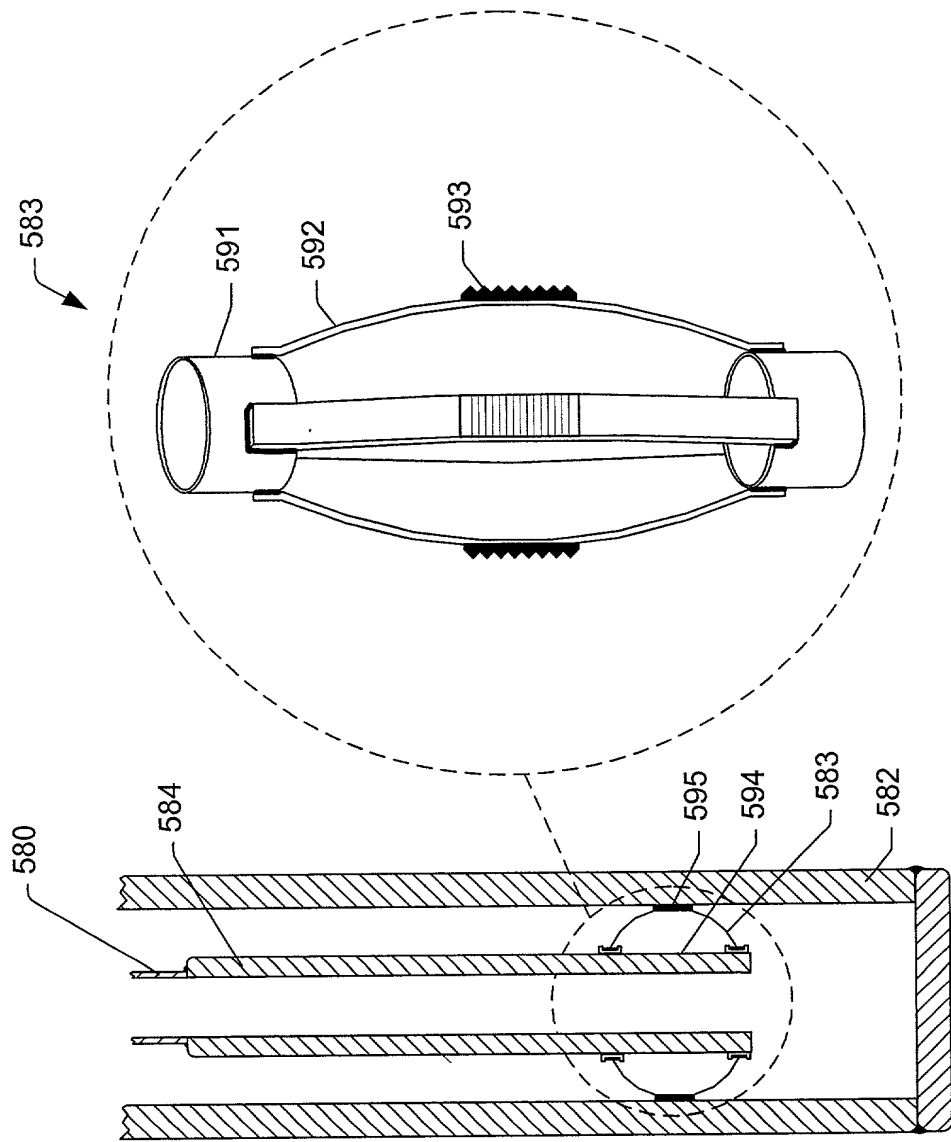


FIG. 20

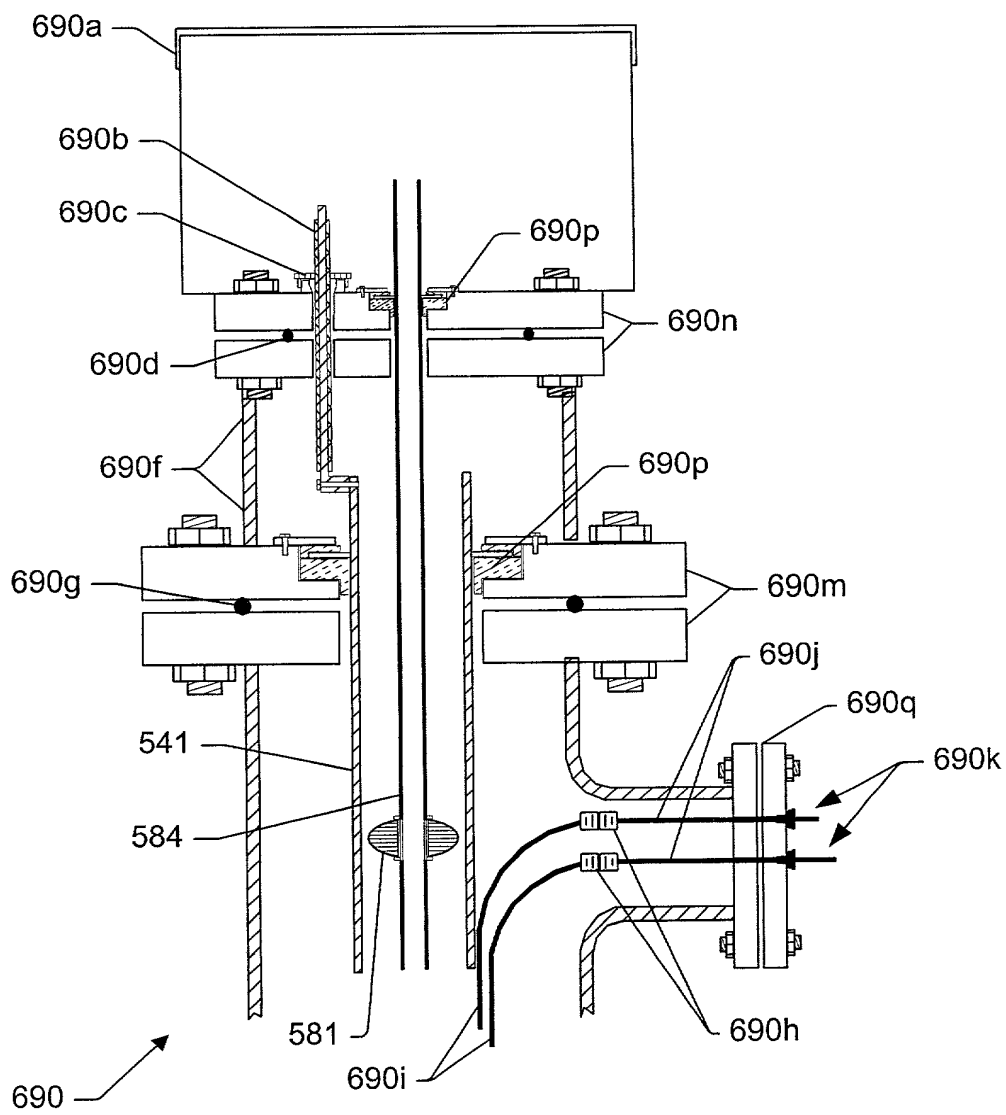


FIG. 21

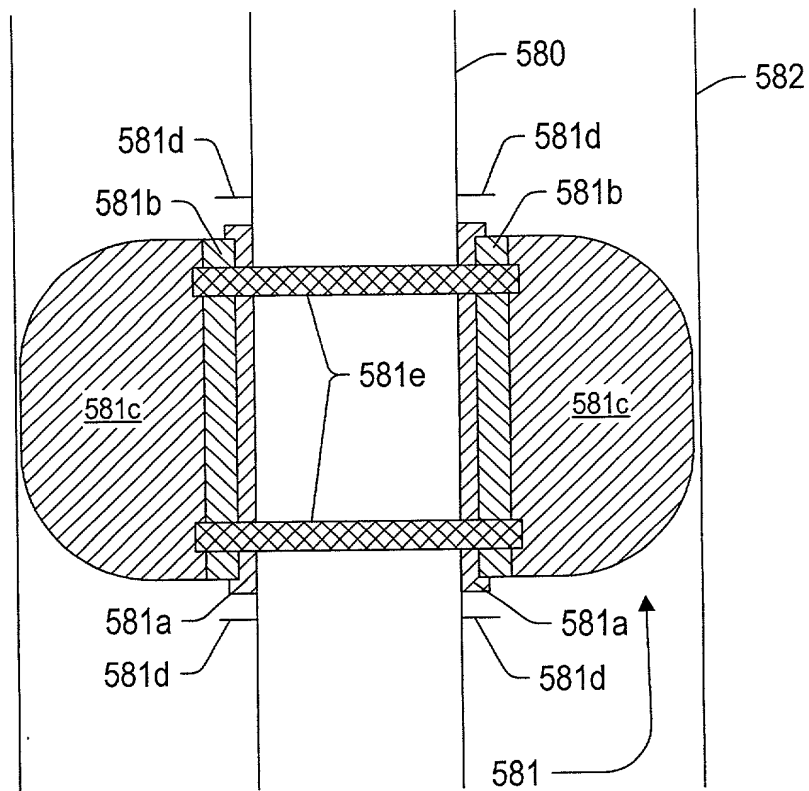


FIG. 22

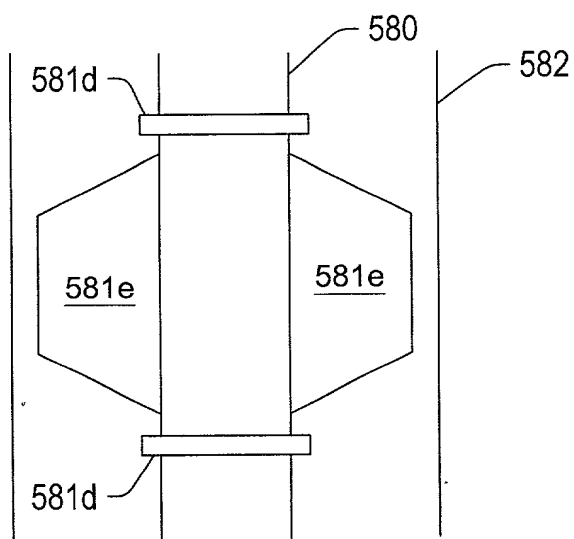


FIG. 23a

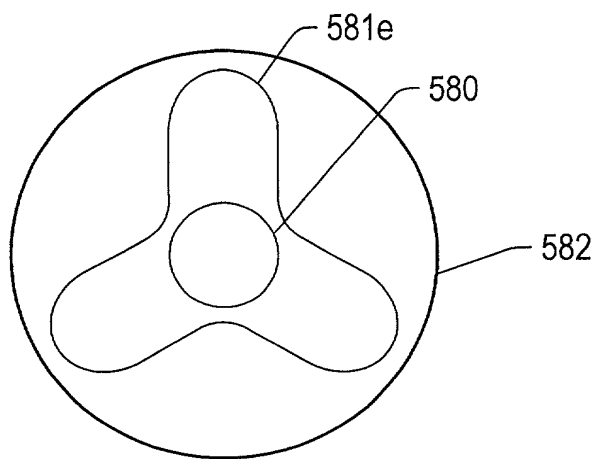


FIG. 23b

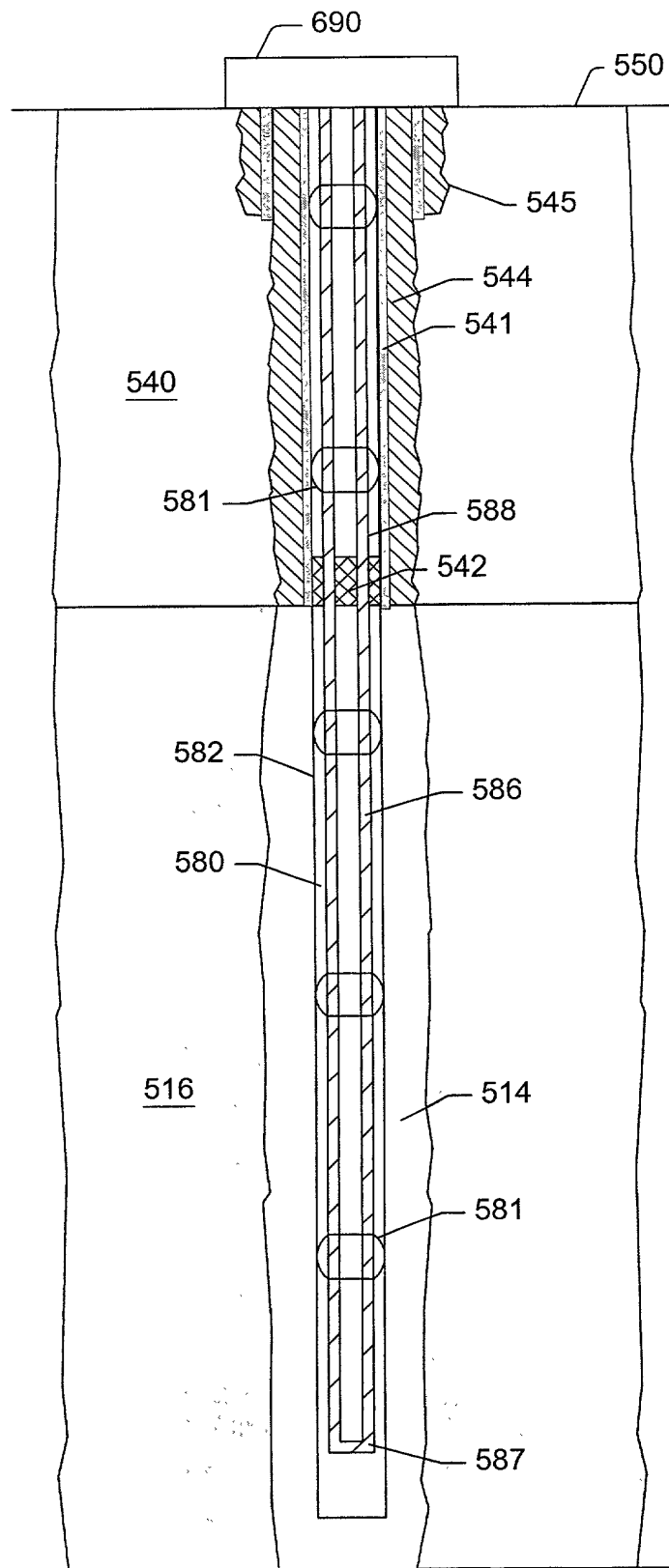


Fig. 24

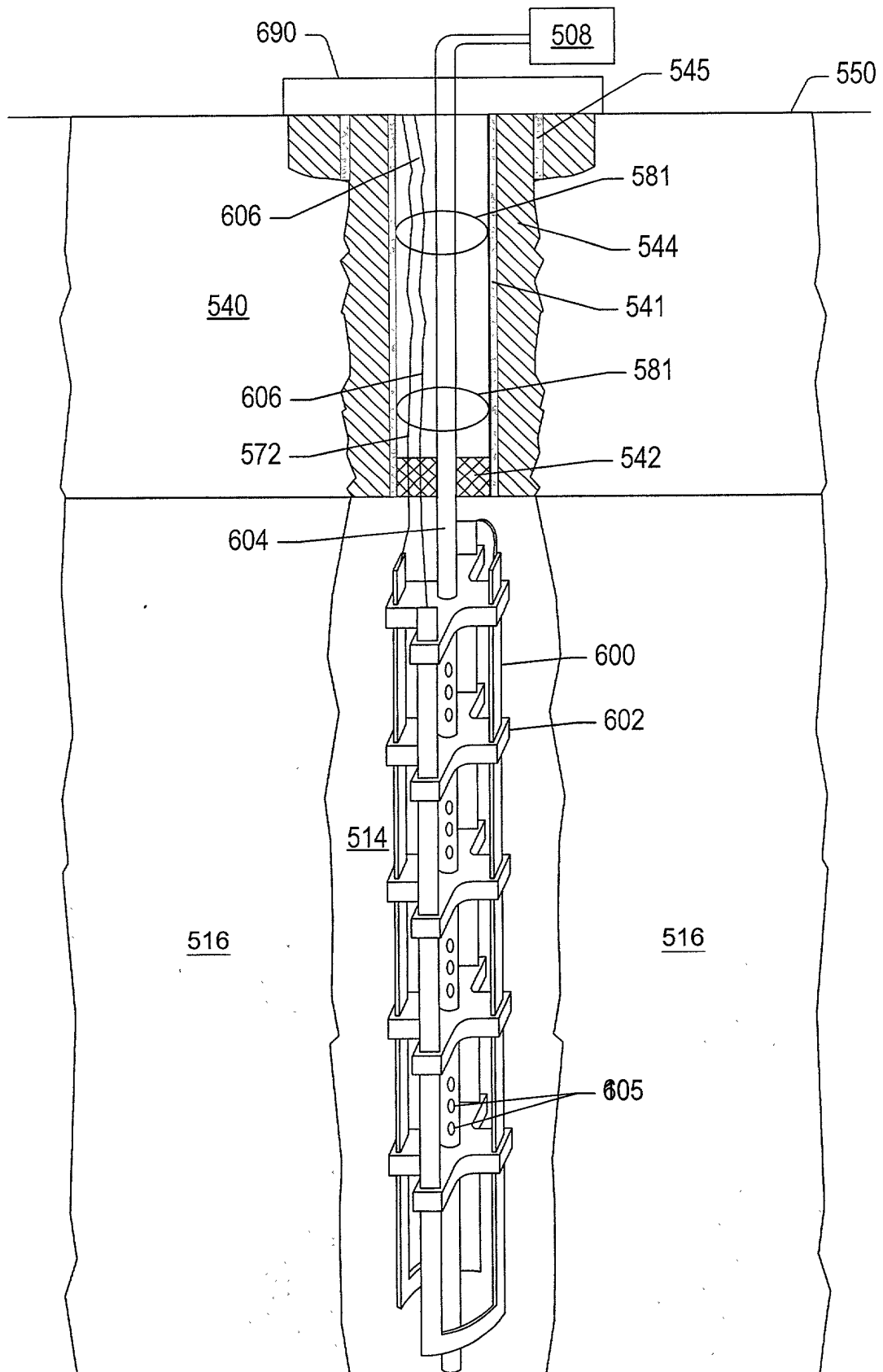


FIG. 25

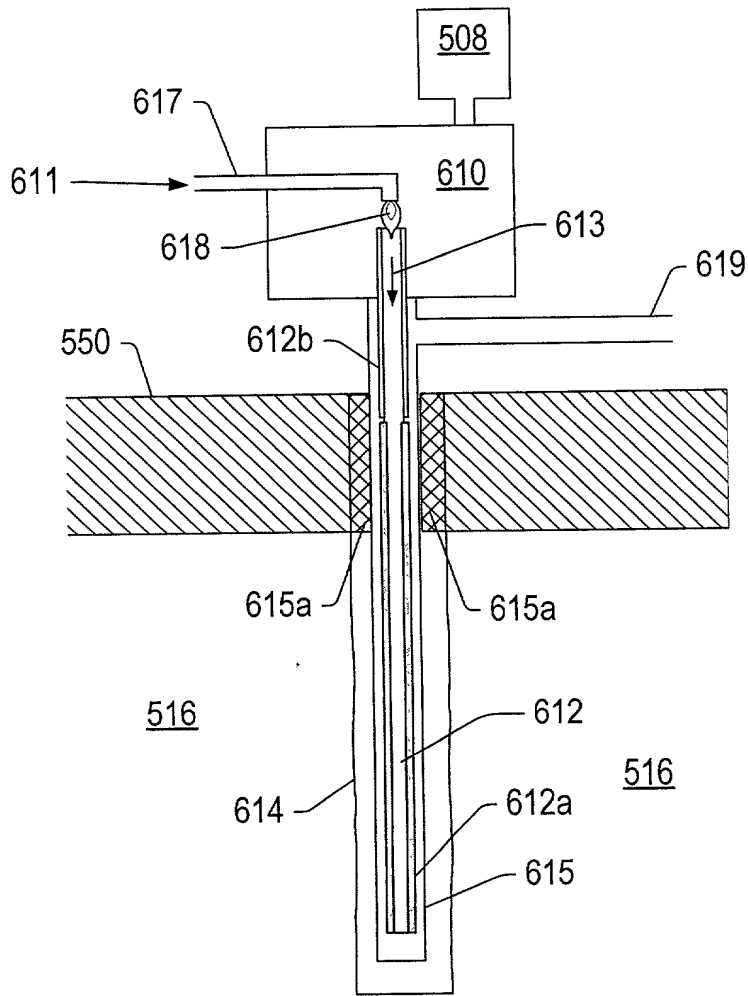


FIG. 26

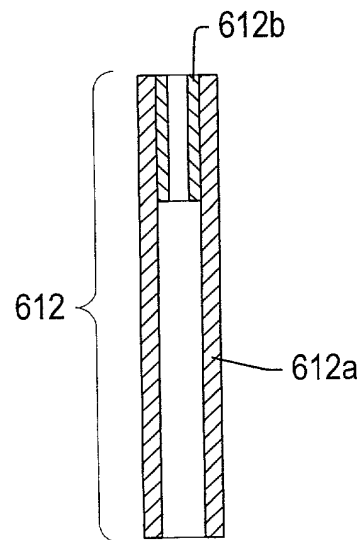


FIG. 27

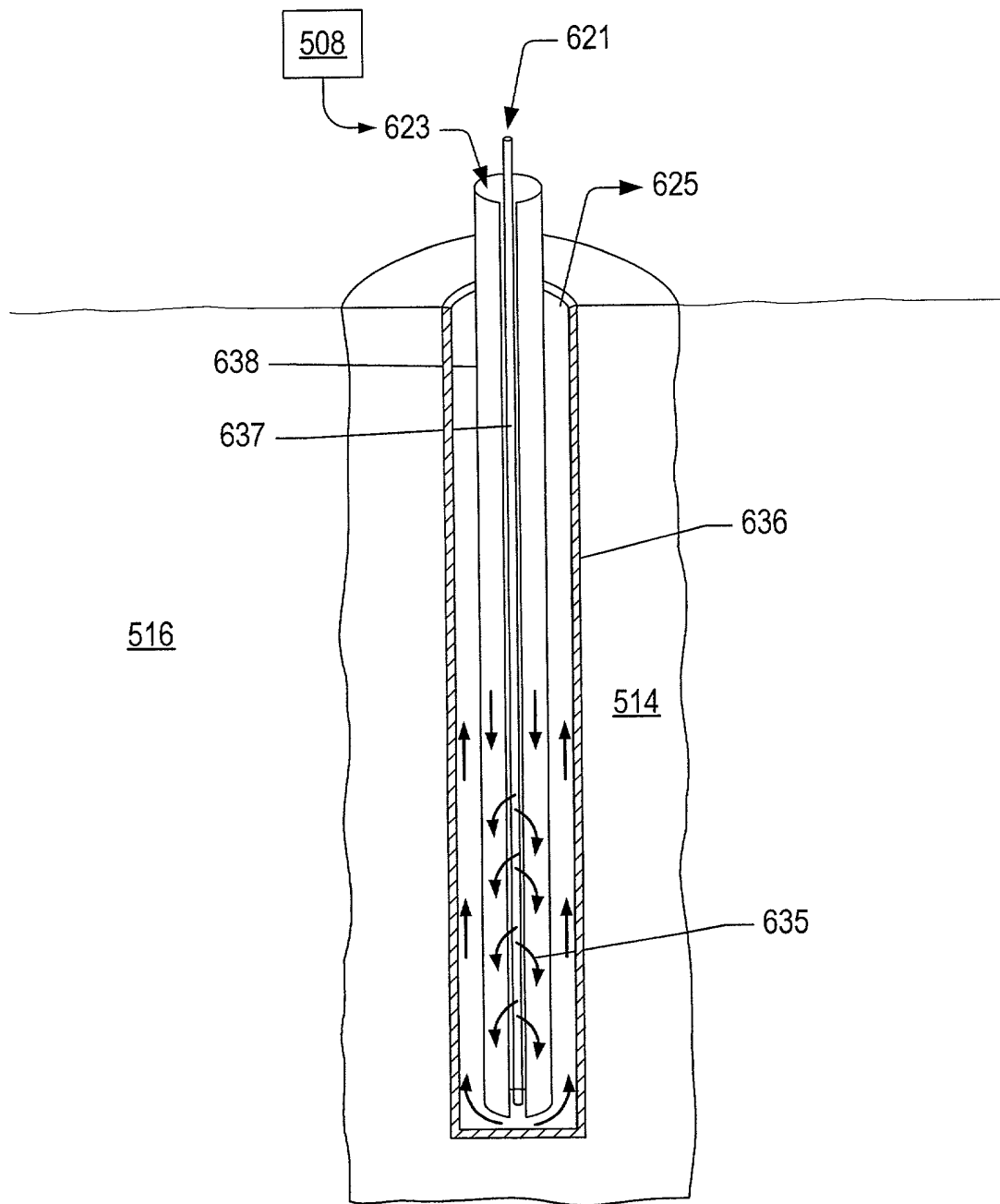


FIG. 28

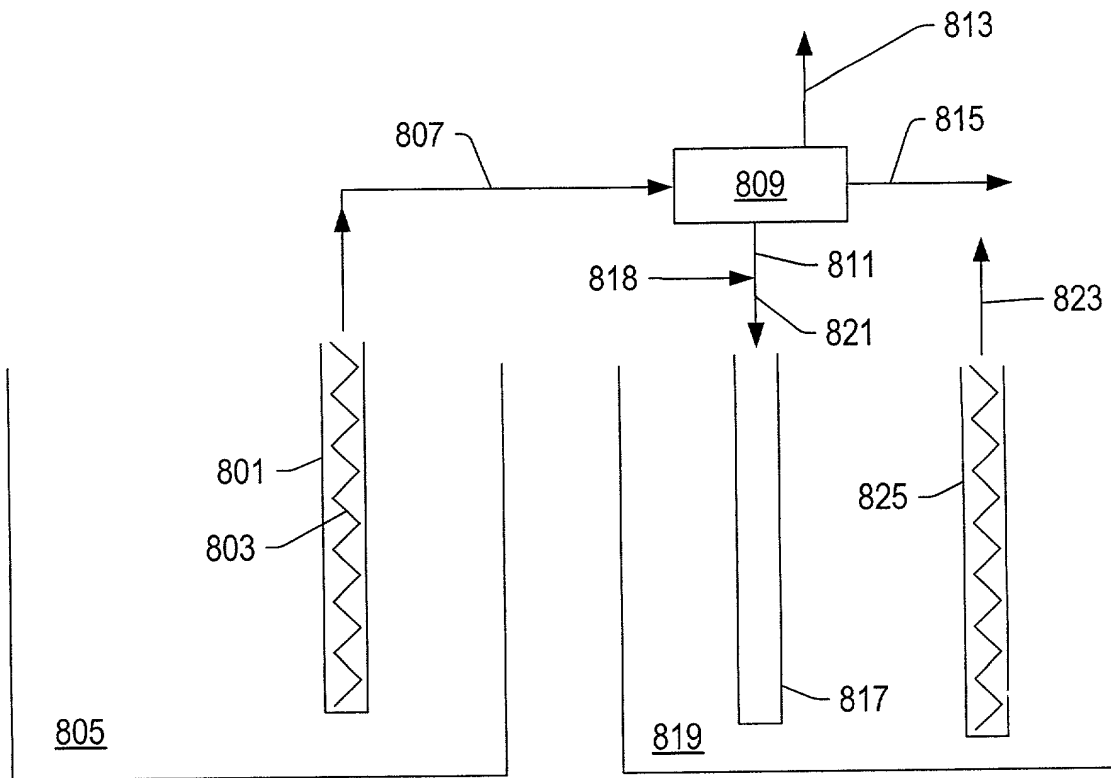


FIG. 29

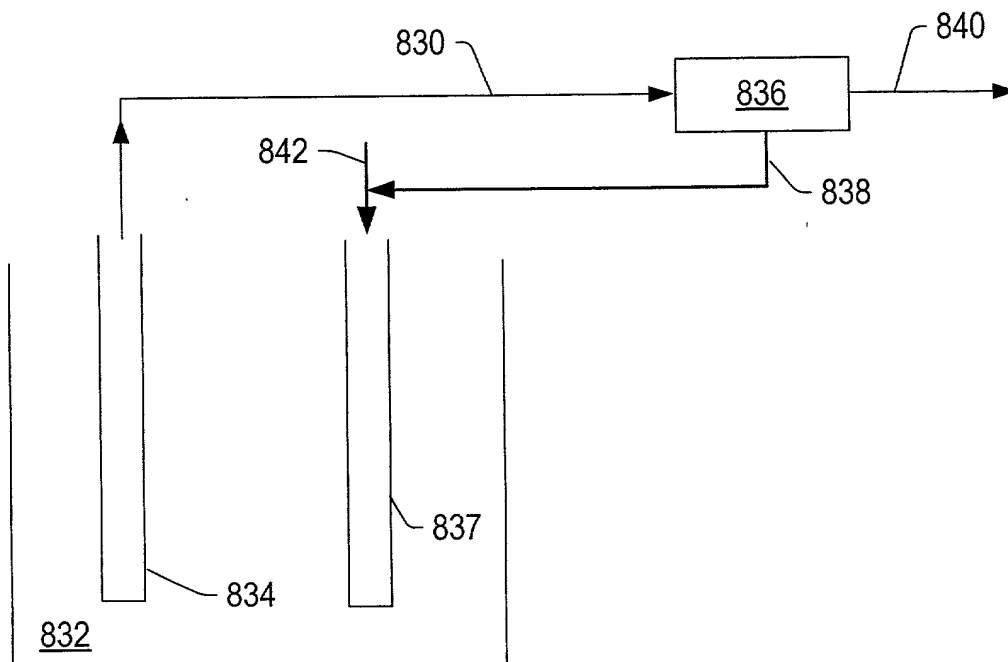


FIG. 30

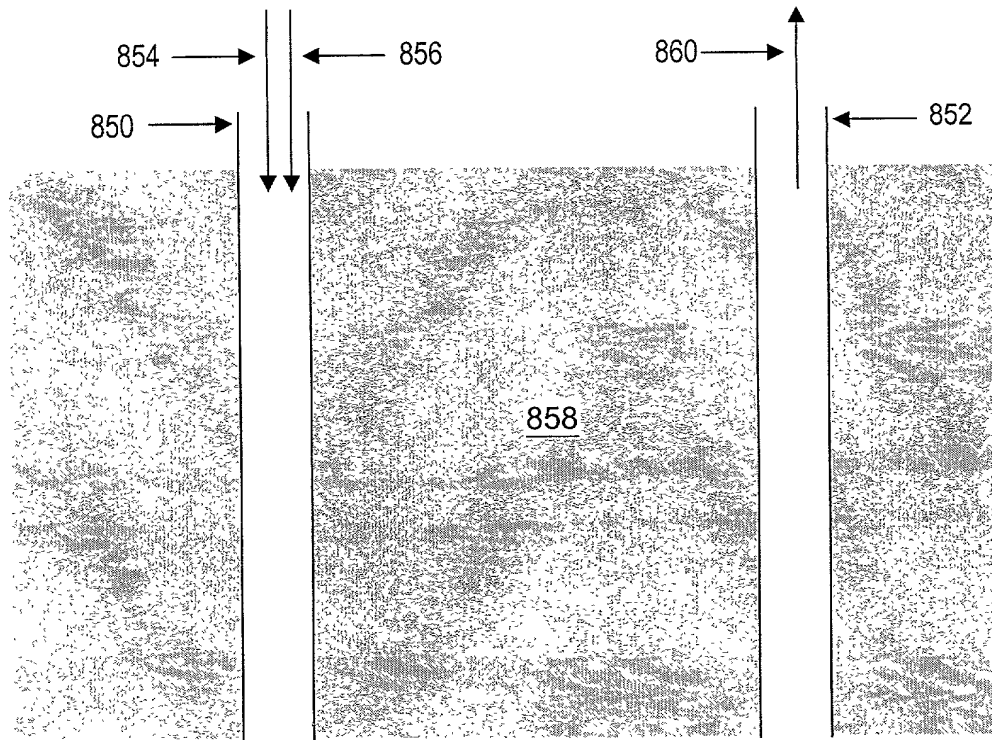


FIG. 31

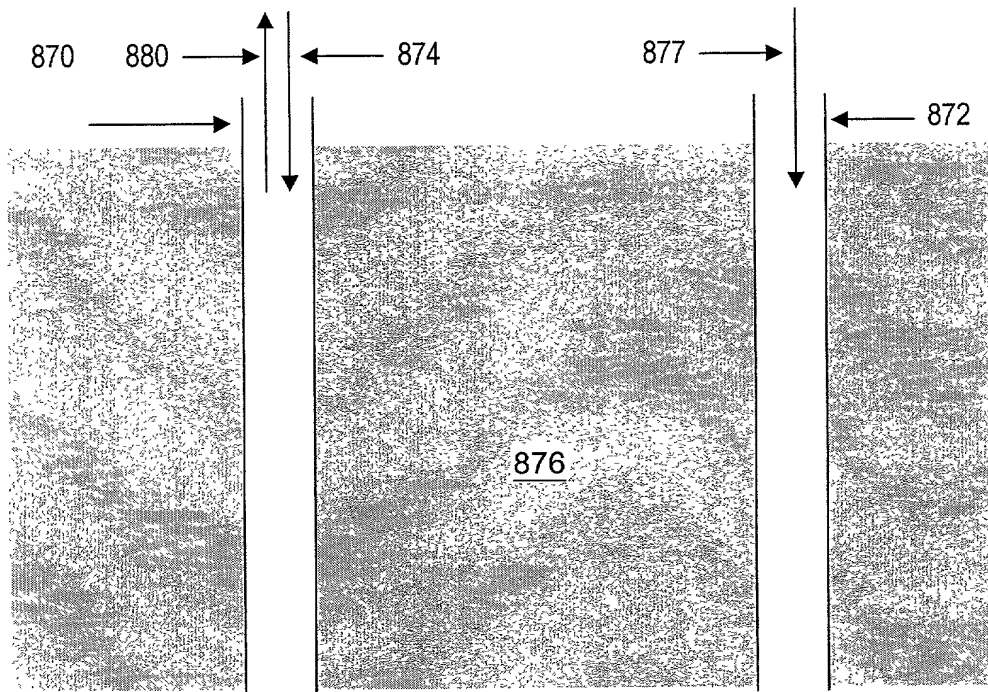


FIG. 32

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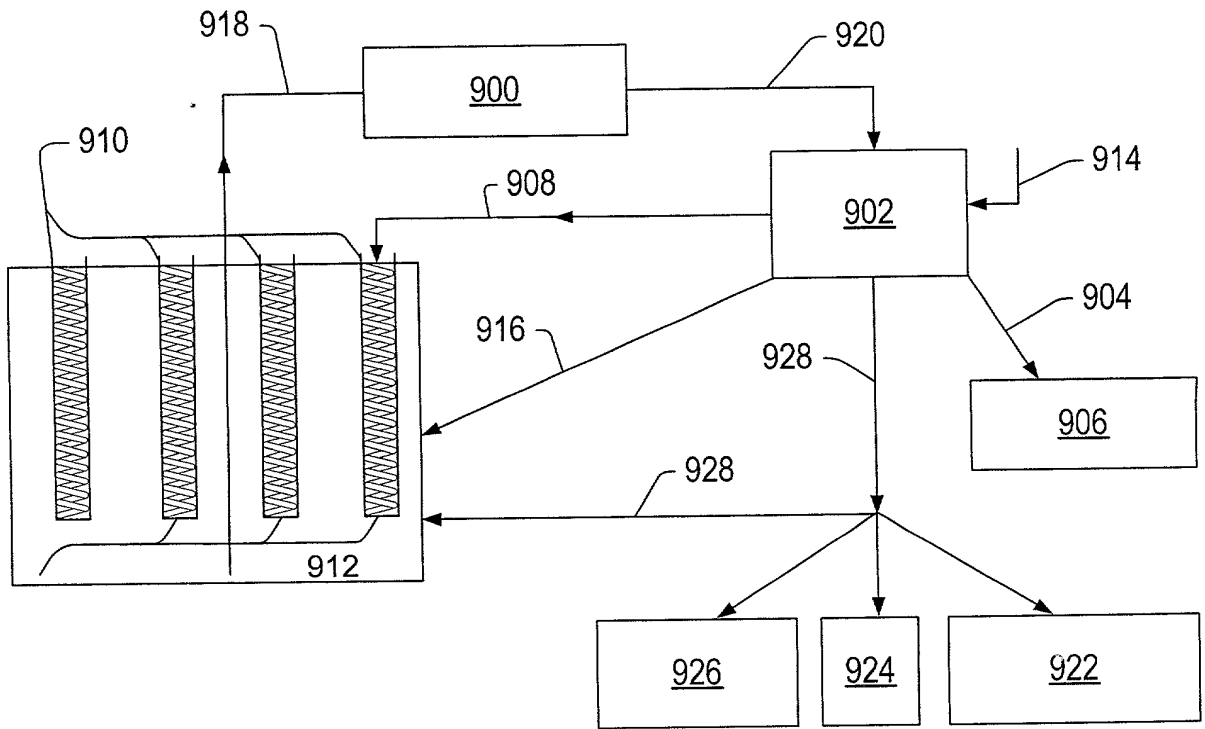


FIG. 33

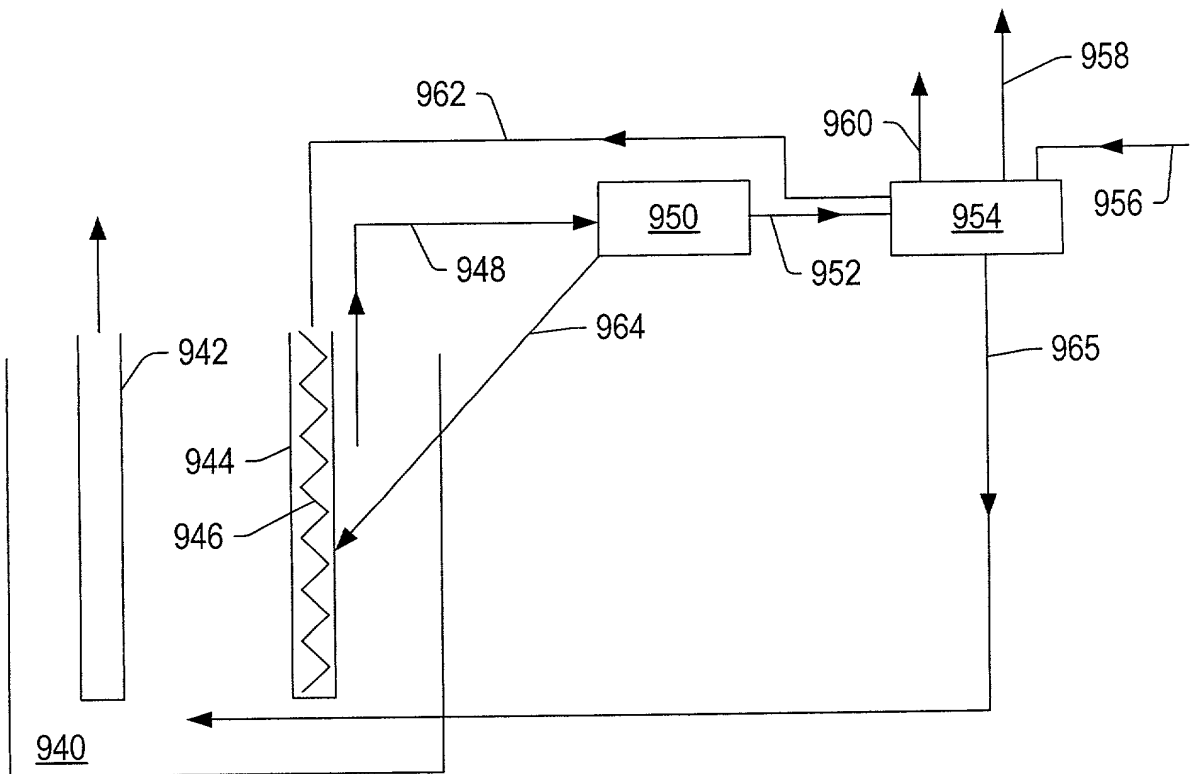


FIG. 34

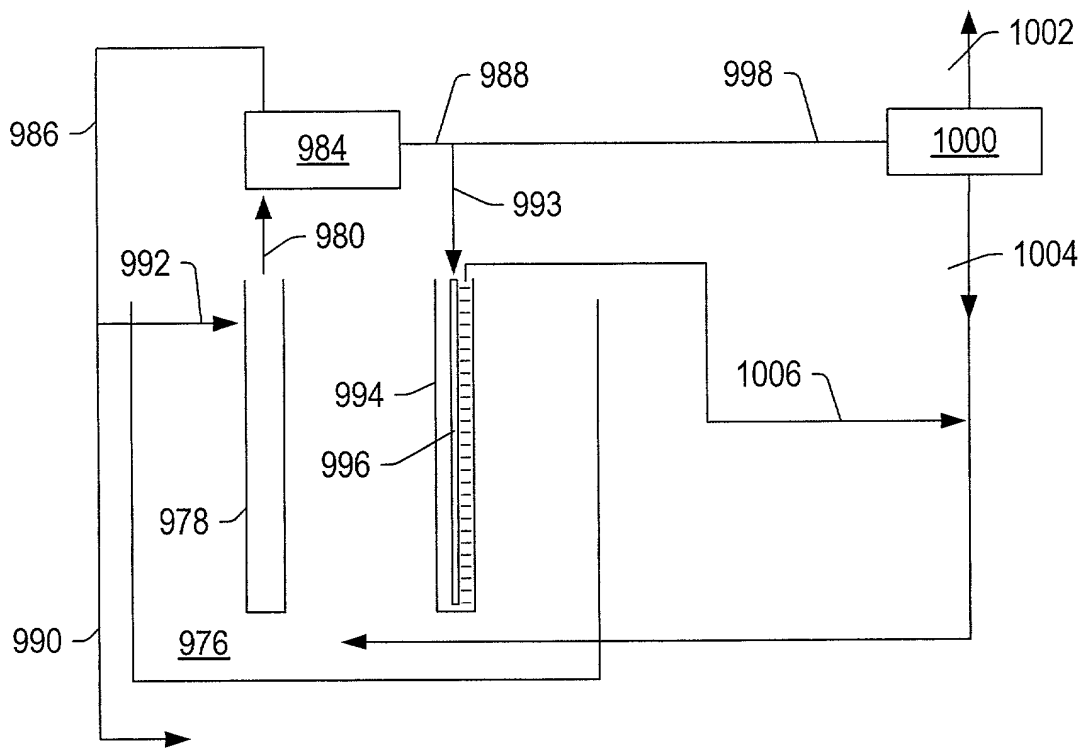


FIG. 35

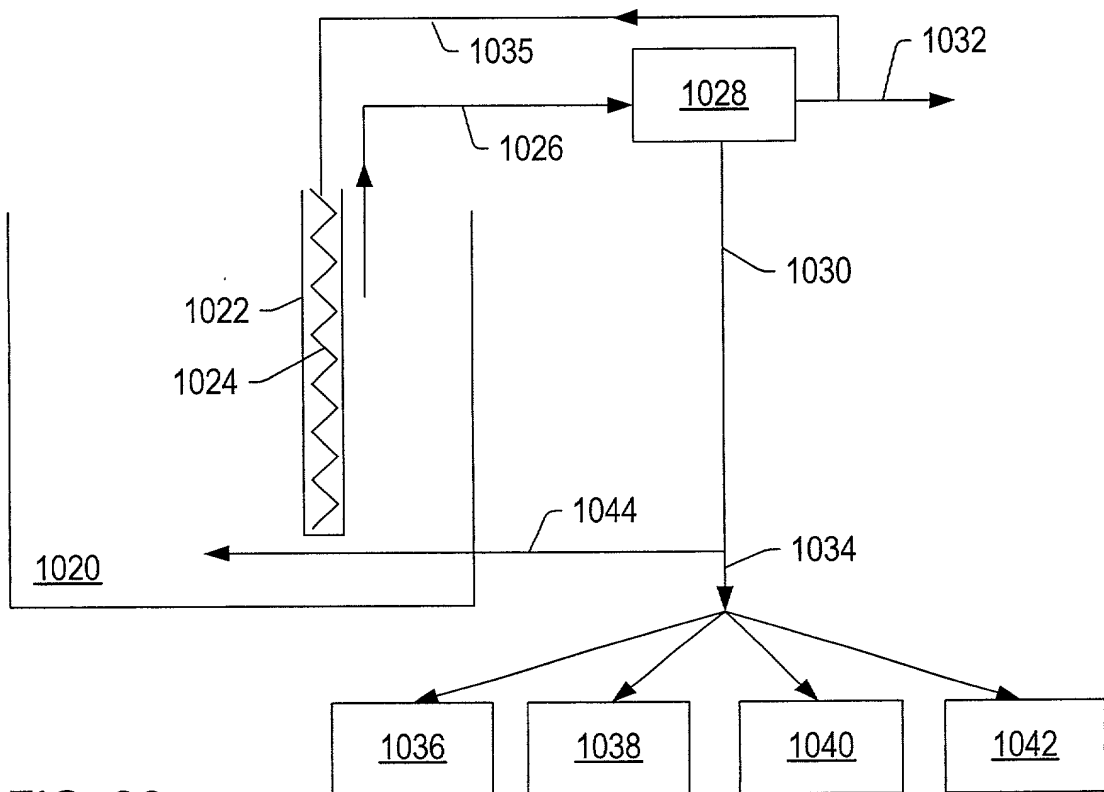


FIG. 36

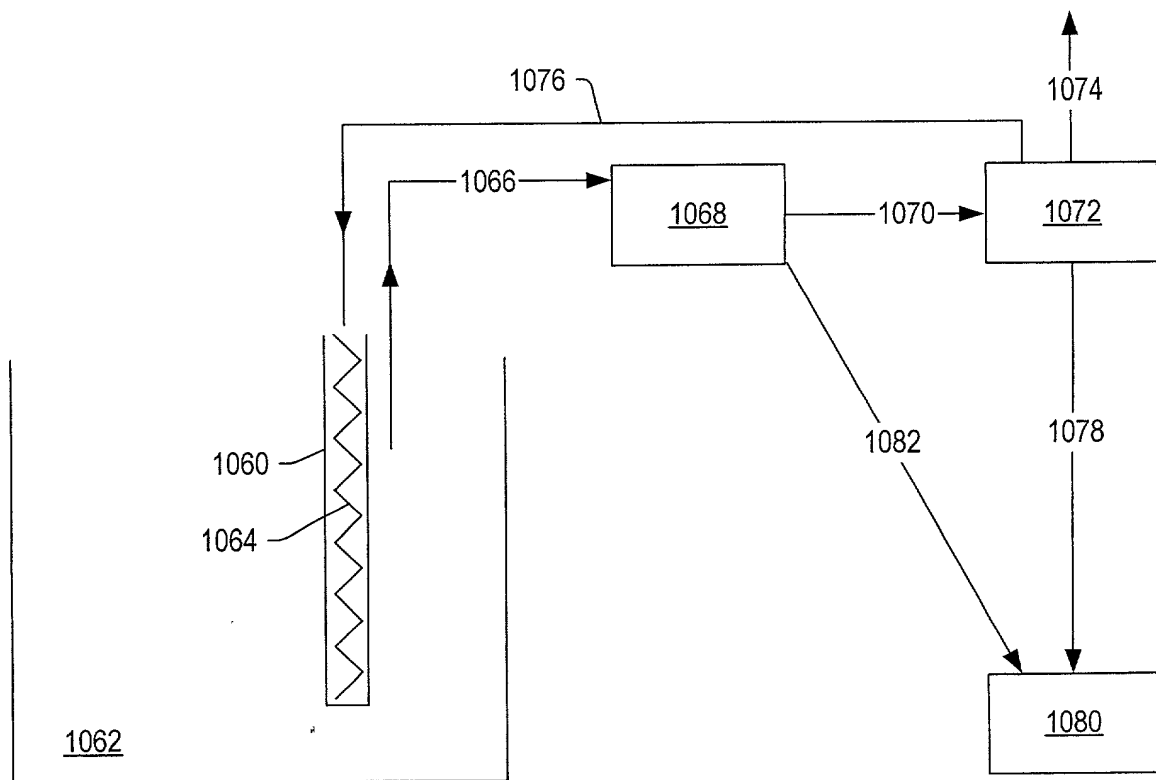


FIG. 37

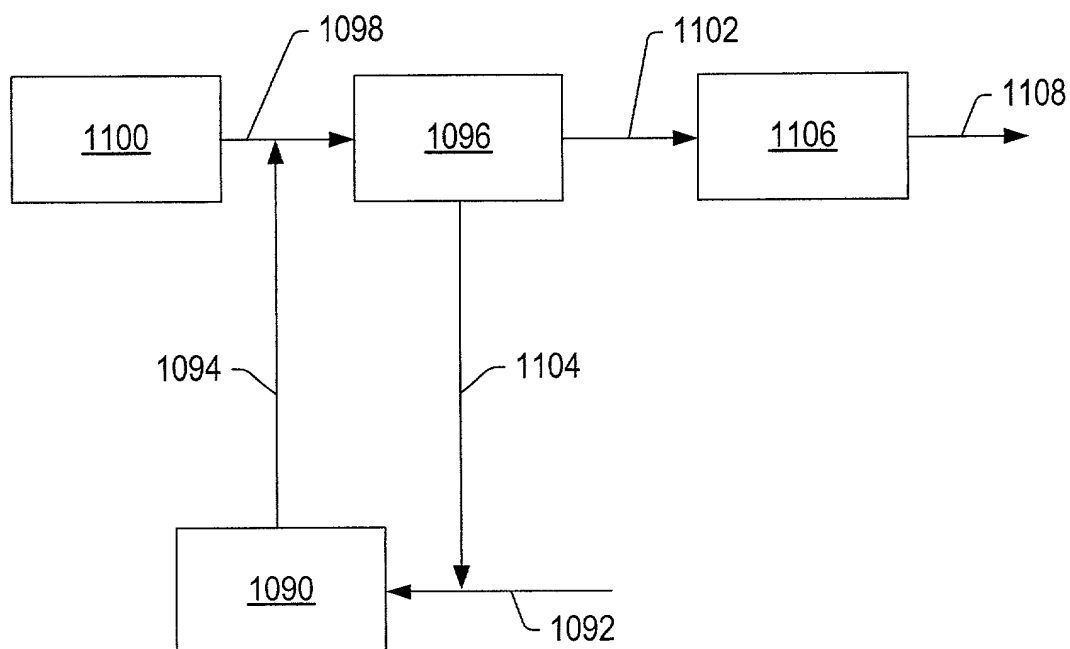


FIG. 38

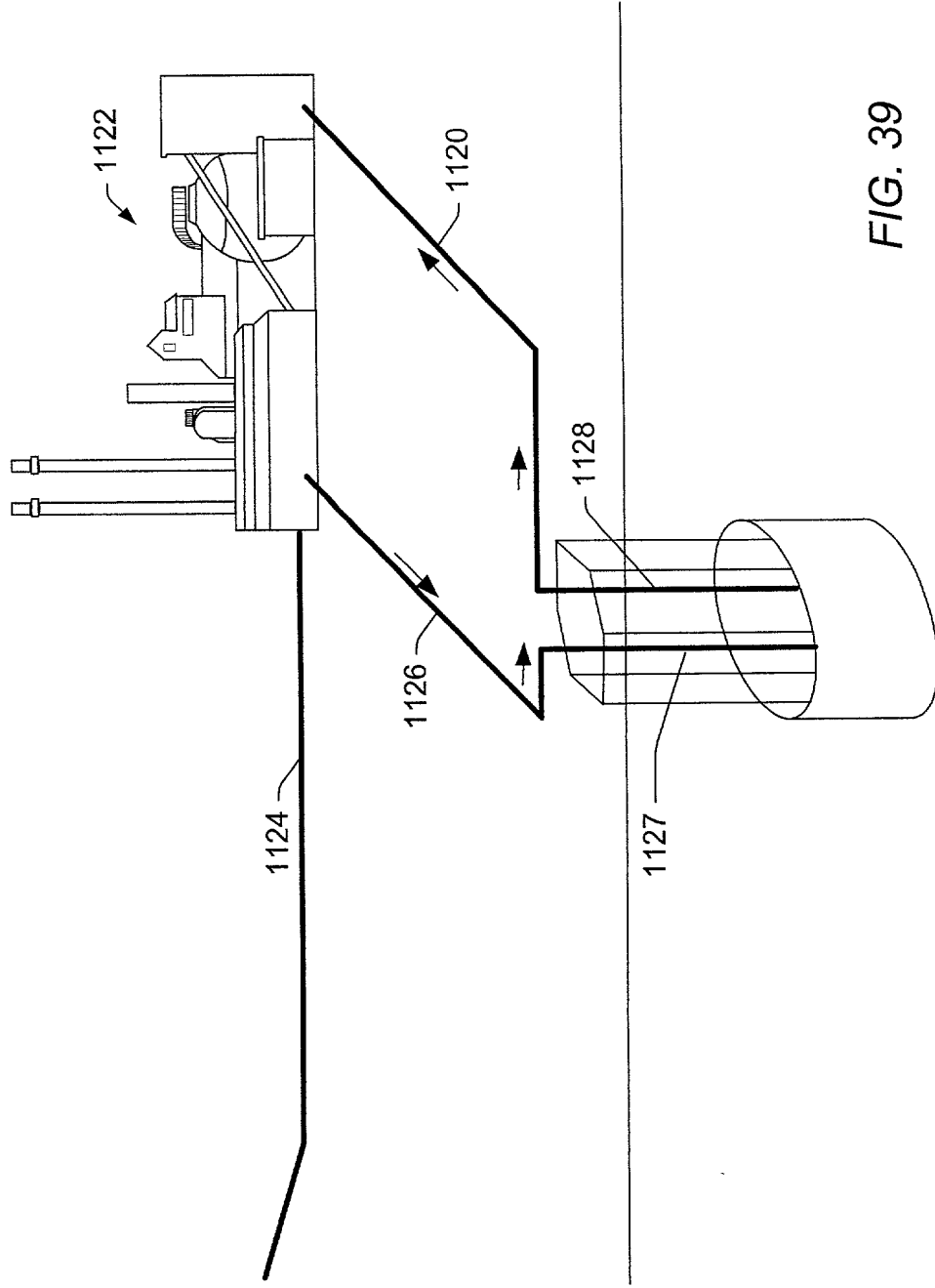


FIG. 39

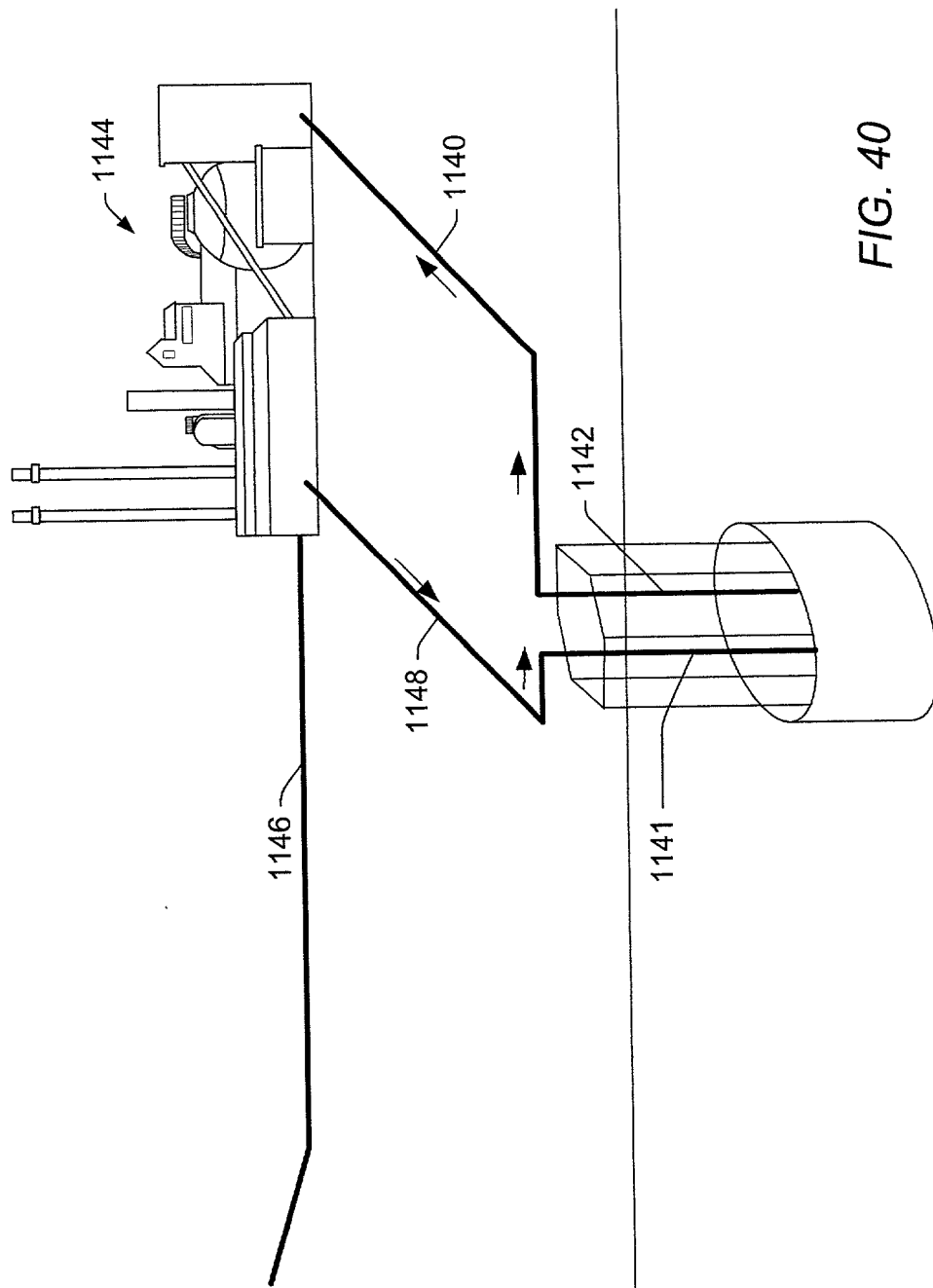


FIG. 40

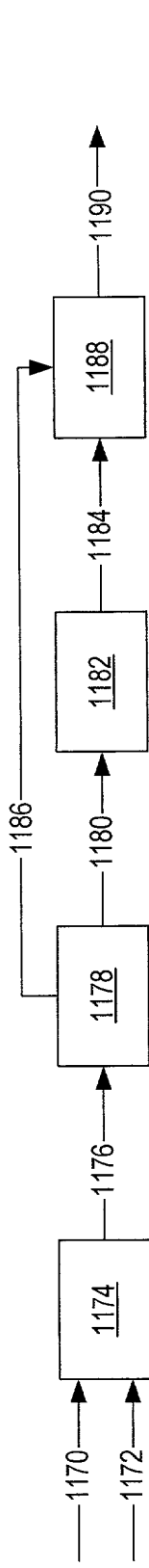


FIG. 41

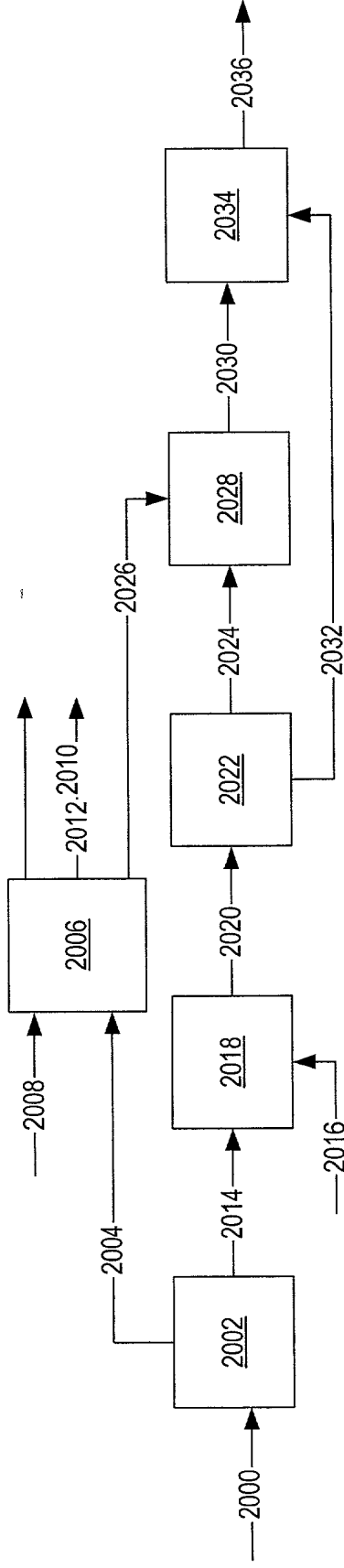


FIG. 42

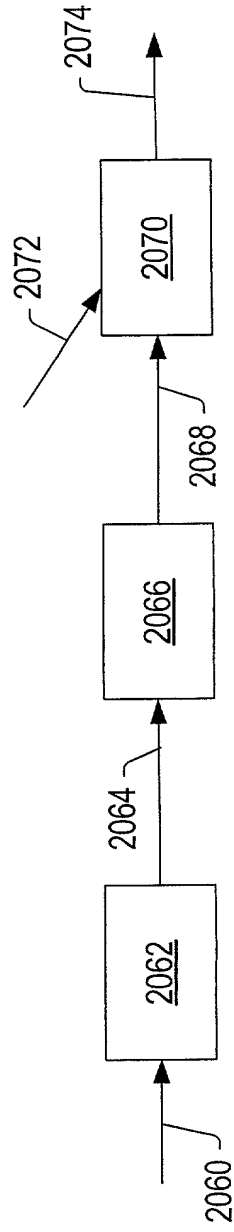


FIG. 43

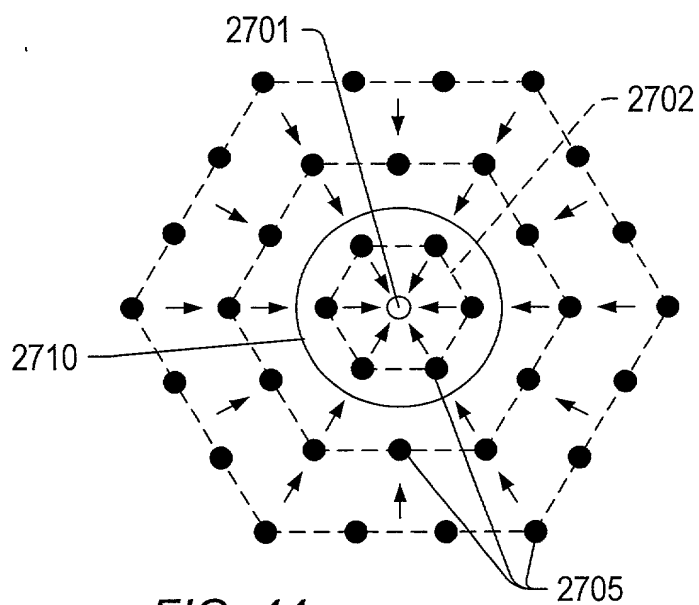


FIG. 44

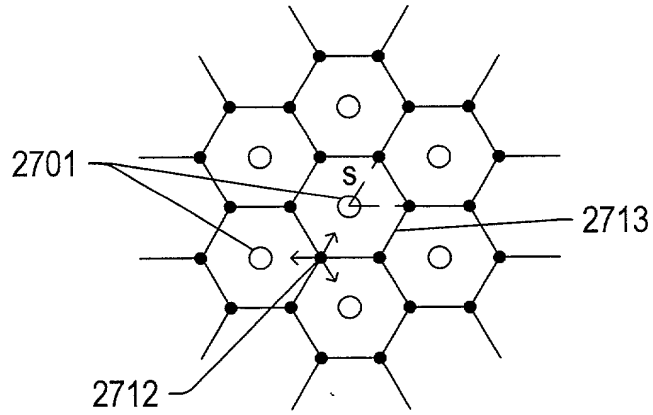


FIG. 45

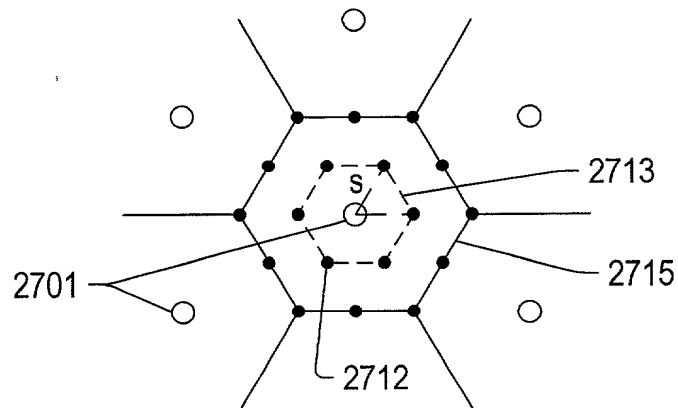


FIG. 46

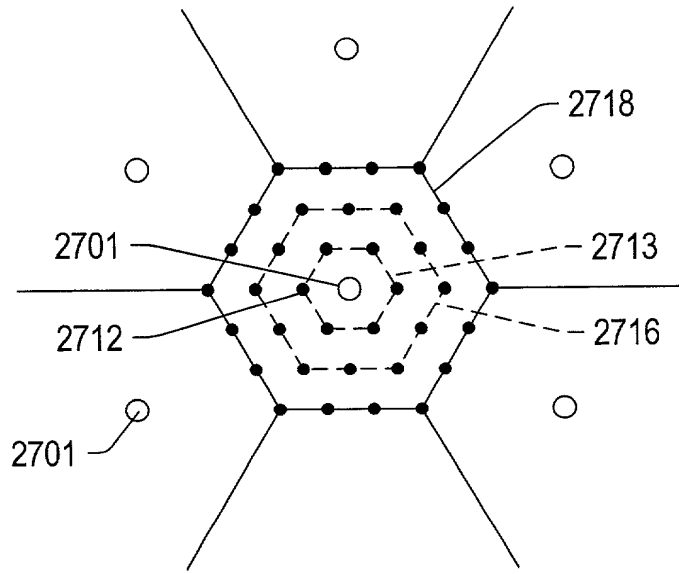


FIG. 47

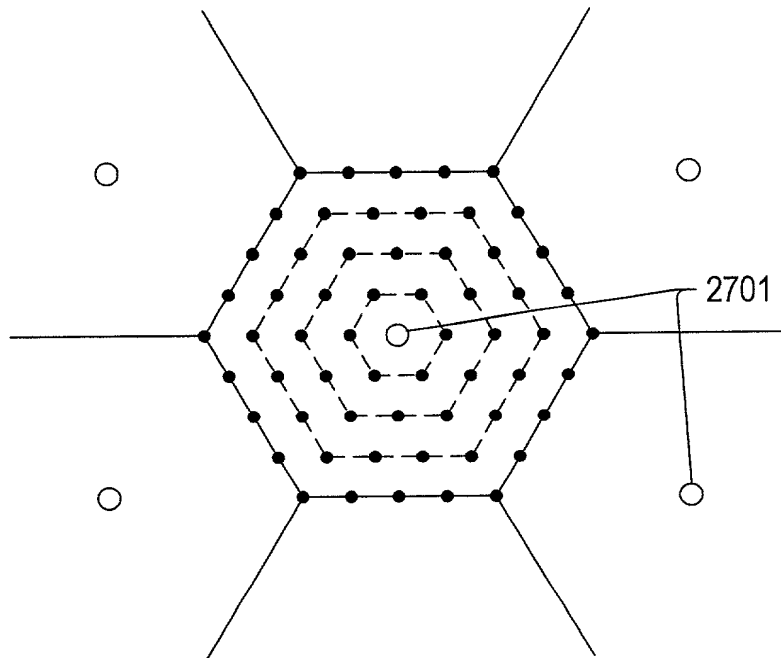


FIG. 48

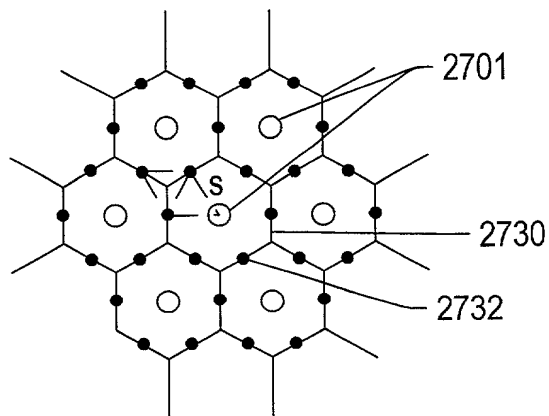


FIG. 49

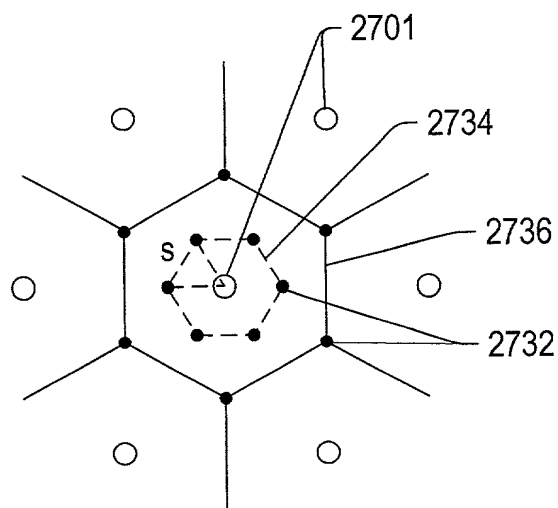


FIG. 50

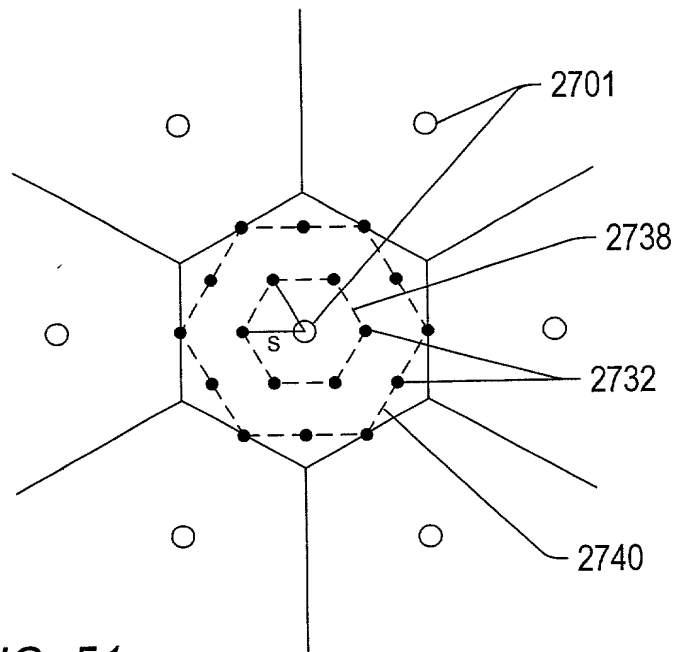


FIG. 51

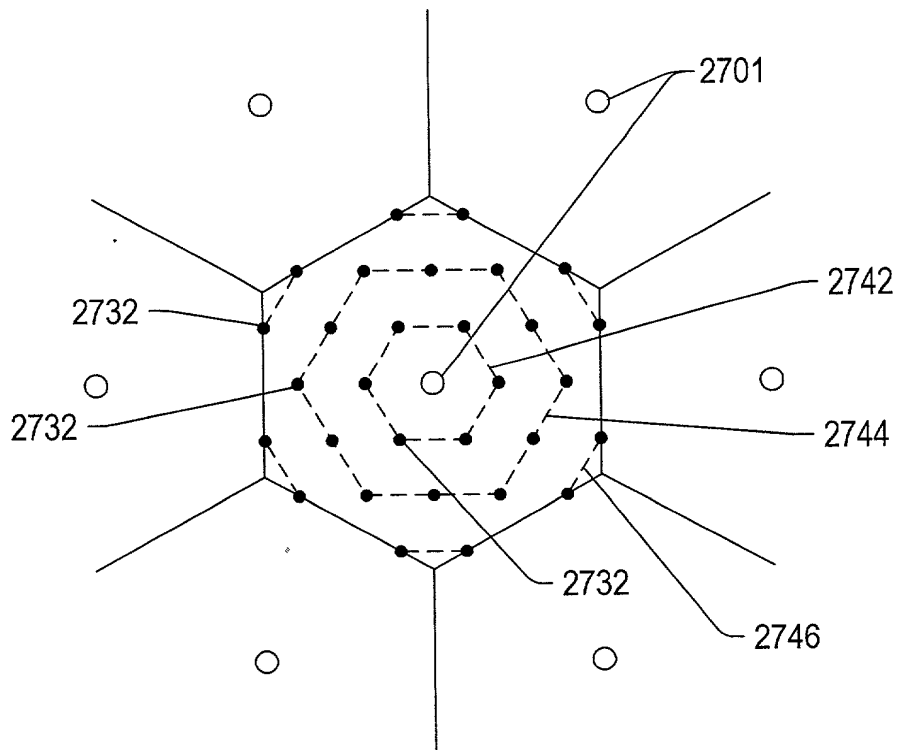


FIG. 52

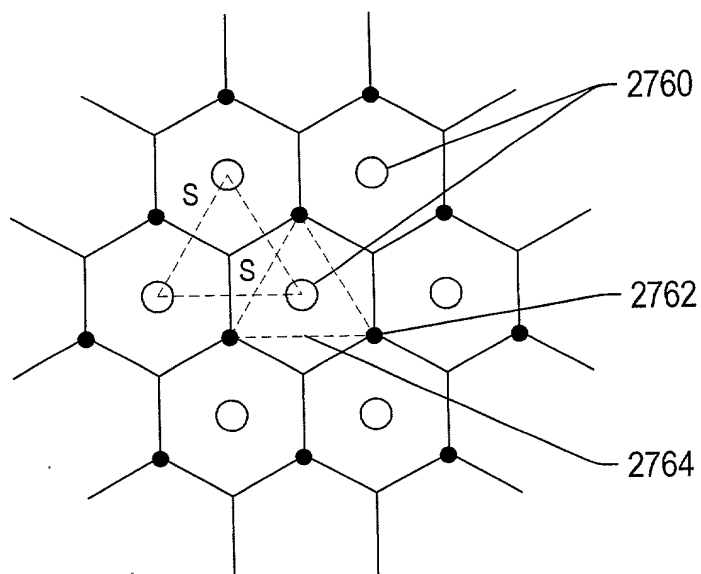


FIG. 53

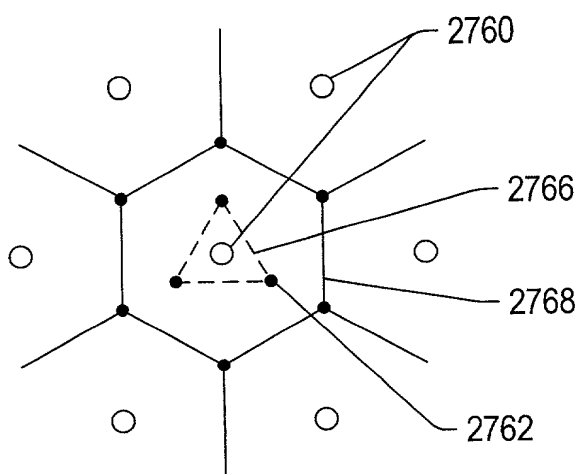


FIG. 54

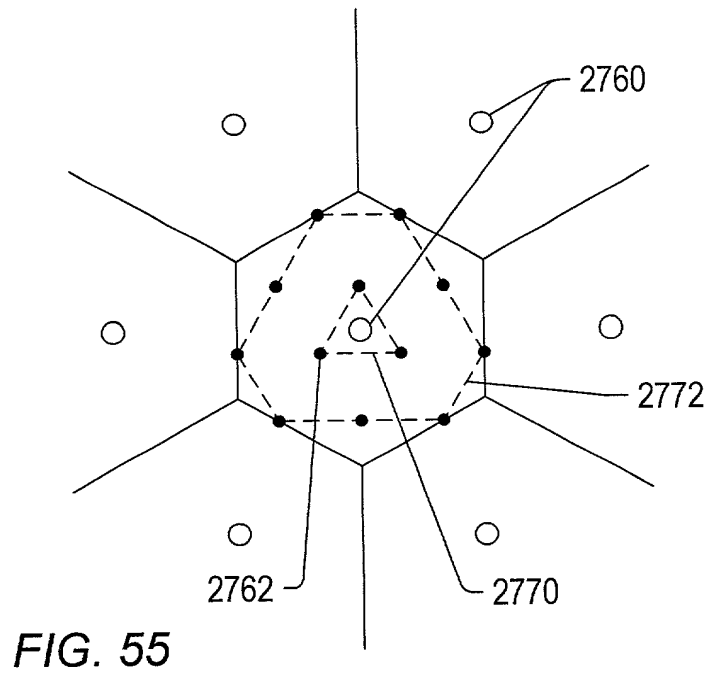


FIG. 55

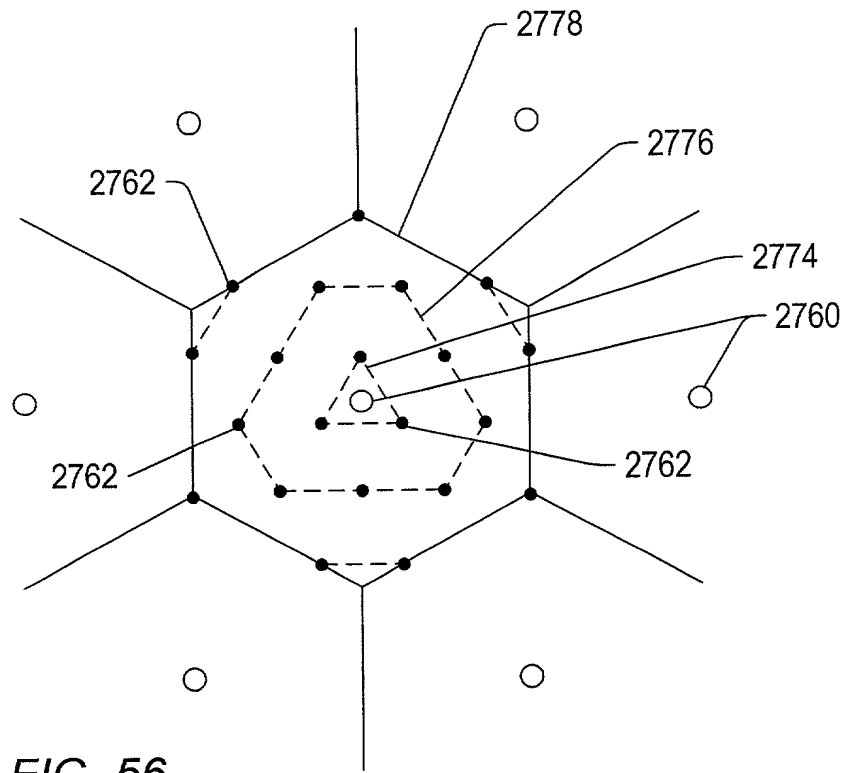


FIG. 56

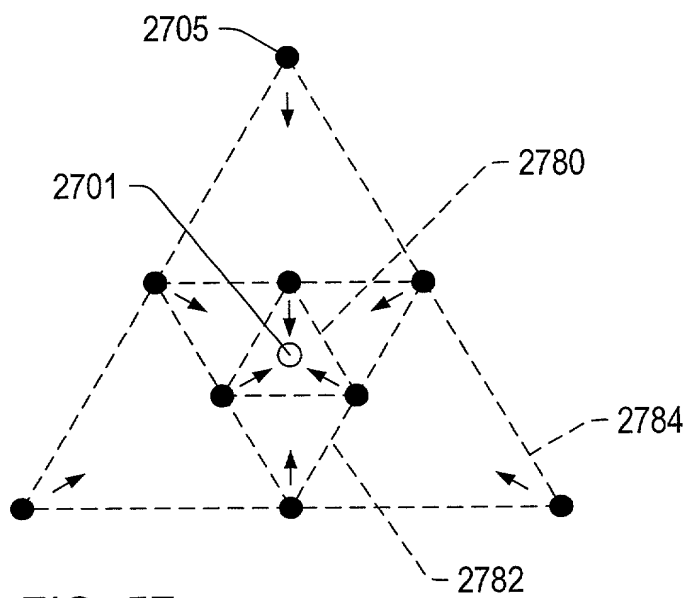


FIG. 57

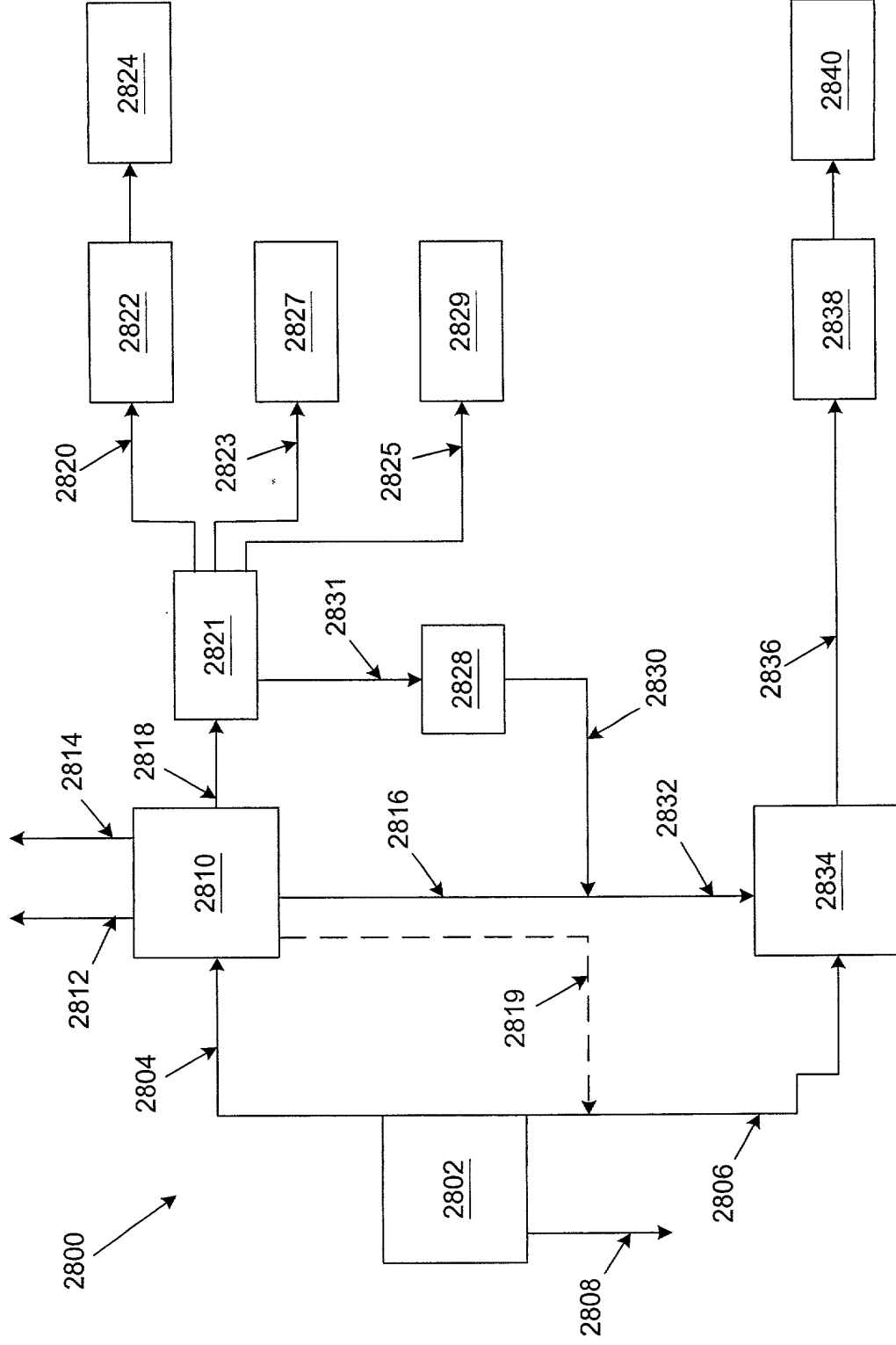
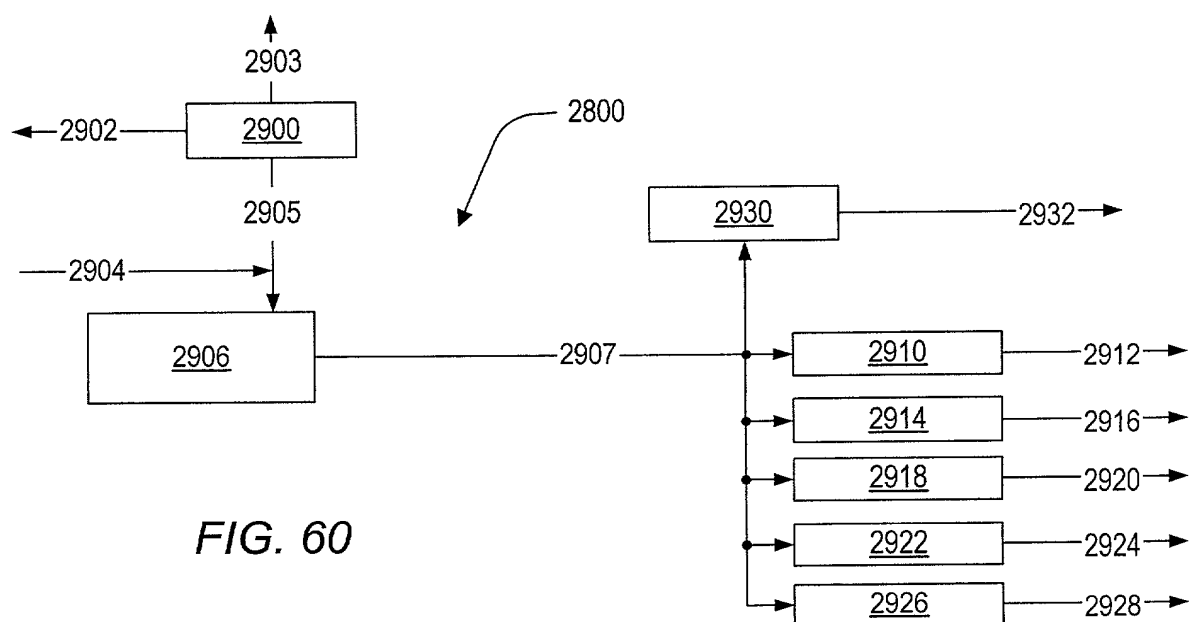
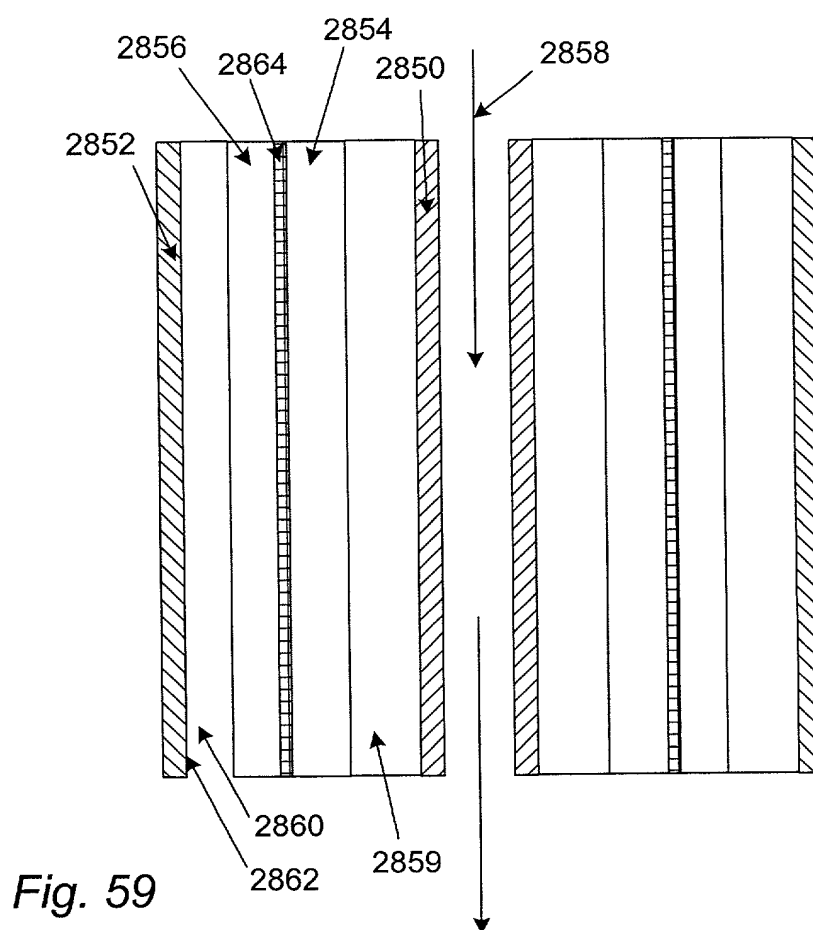


Fig. 58



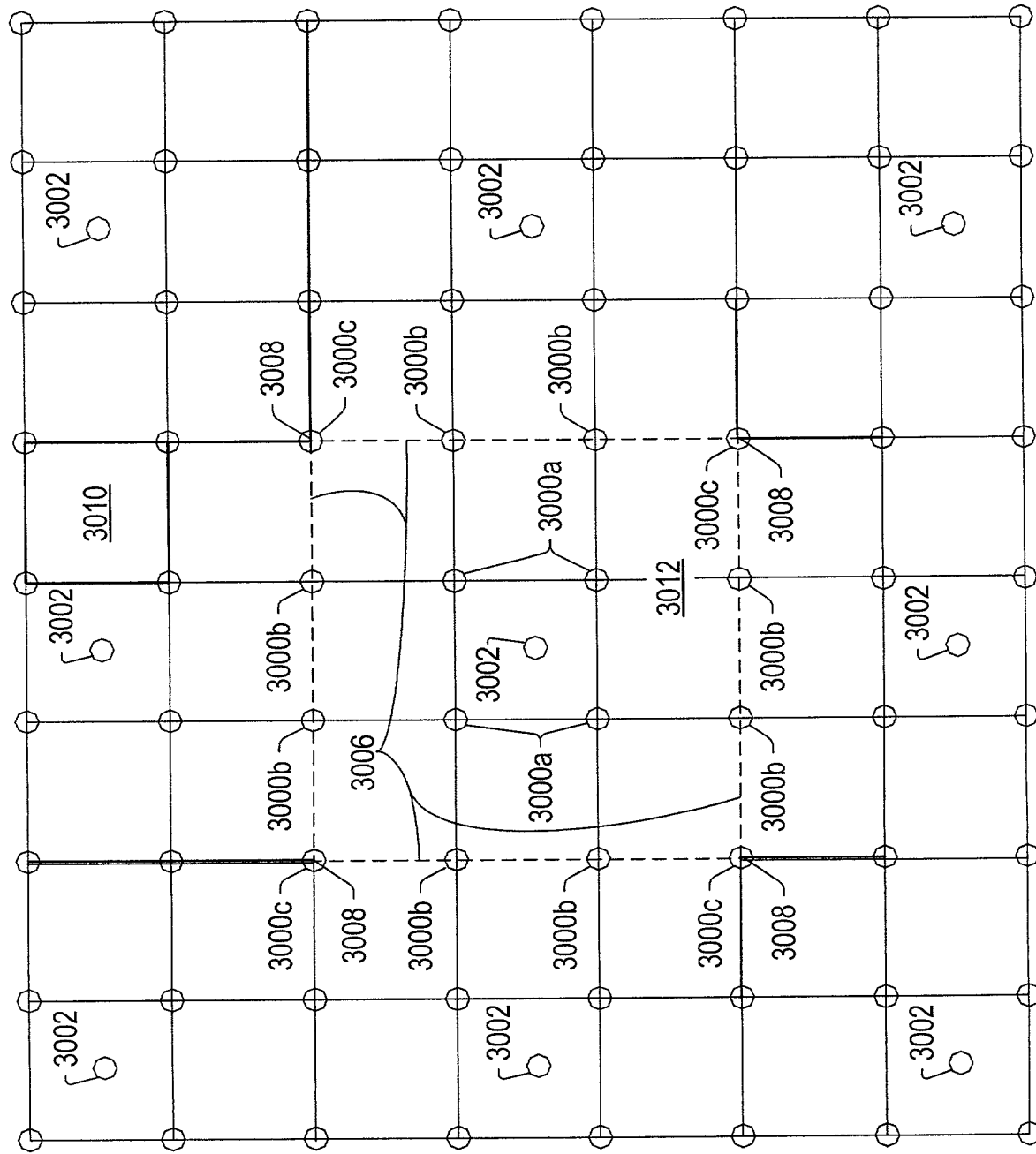


FIG. 61

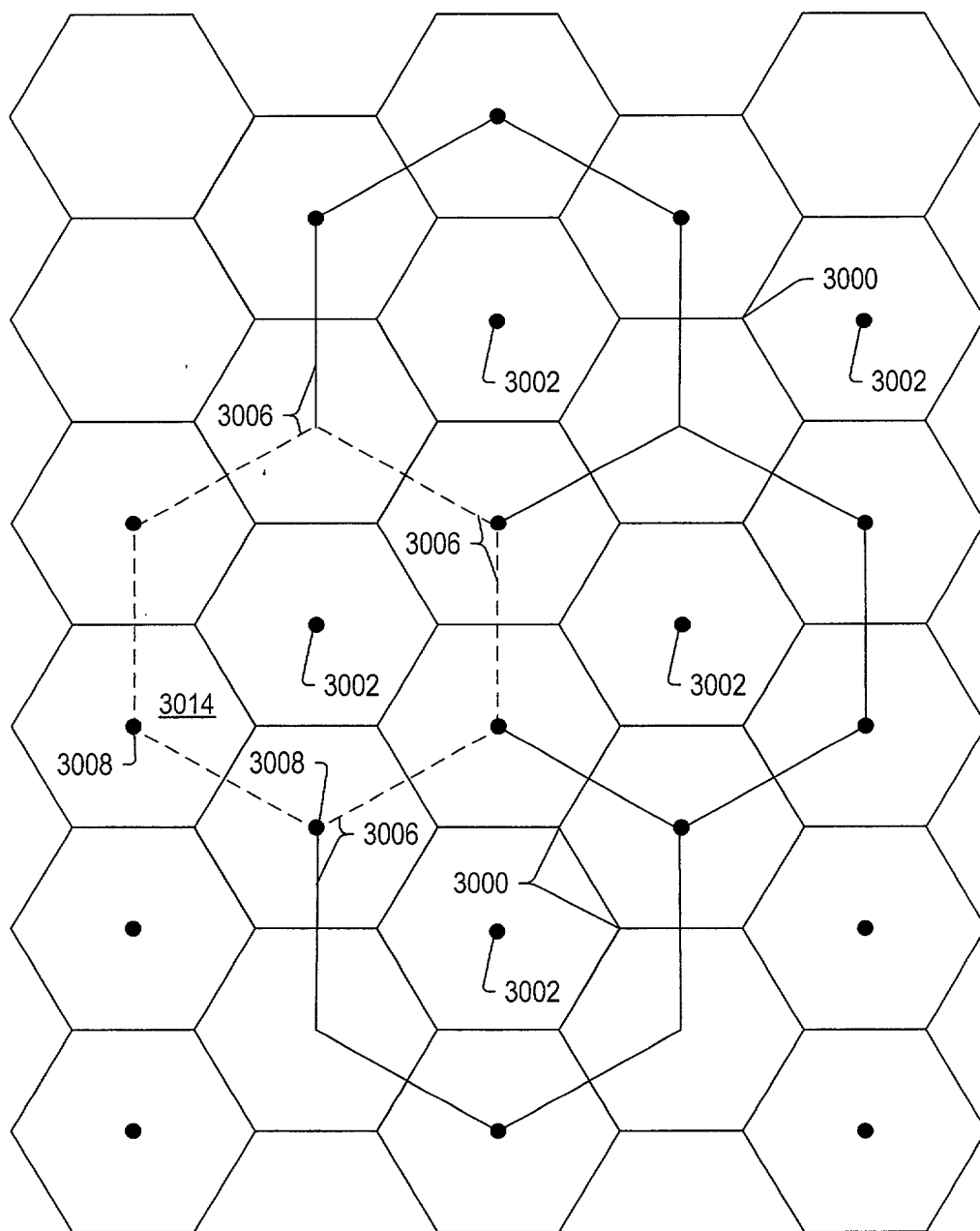


FIG. 62

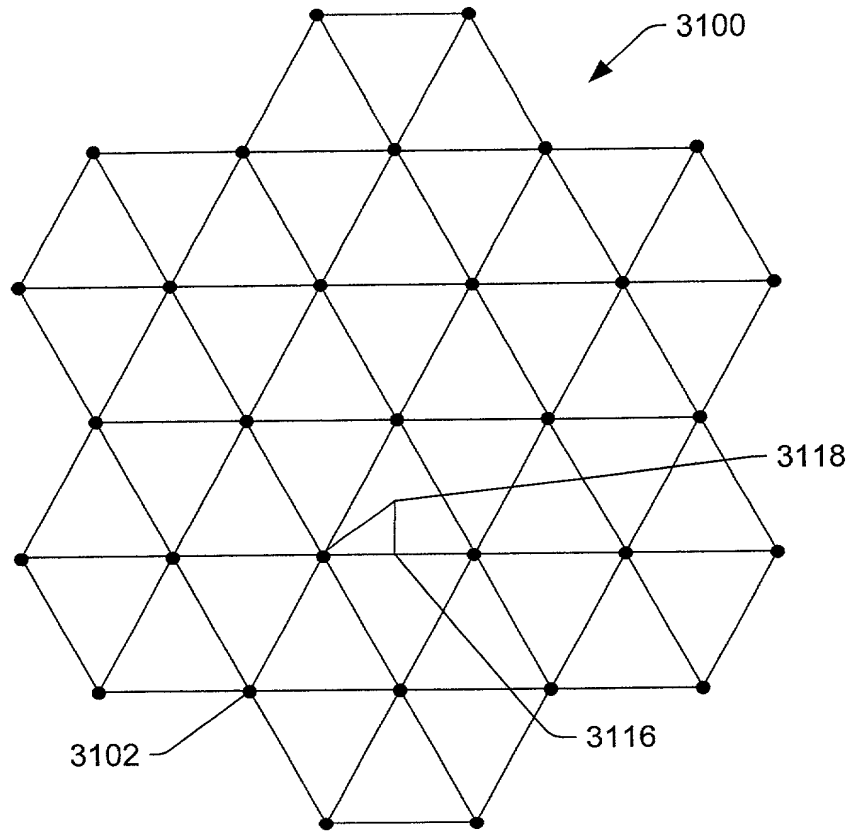


FIG. 63

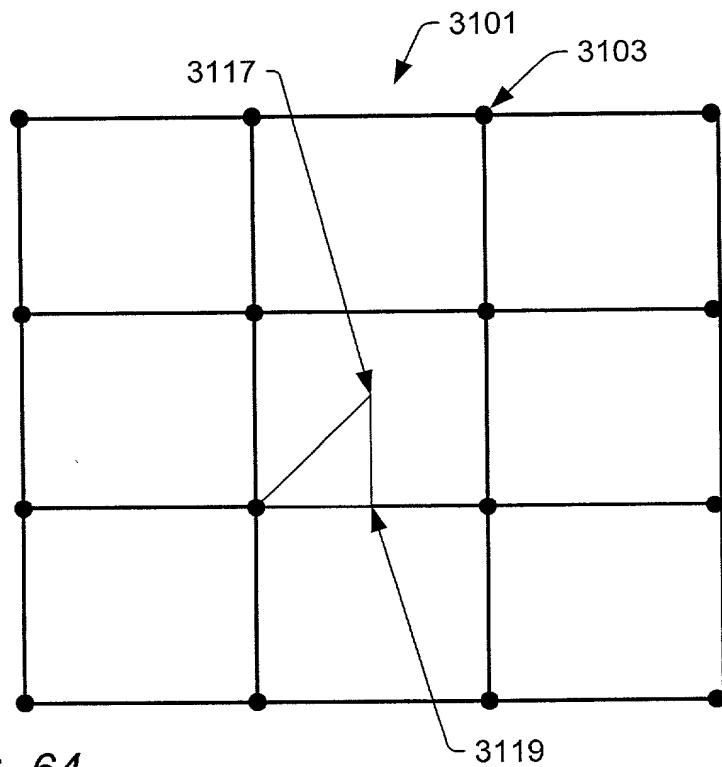


FIG. 64

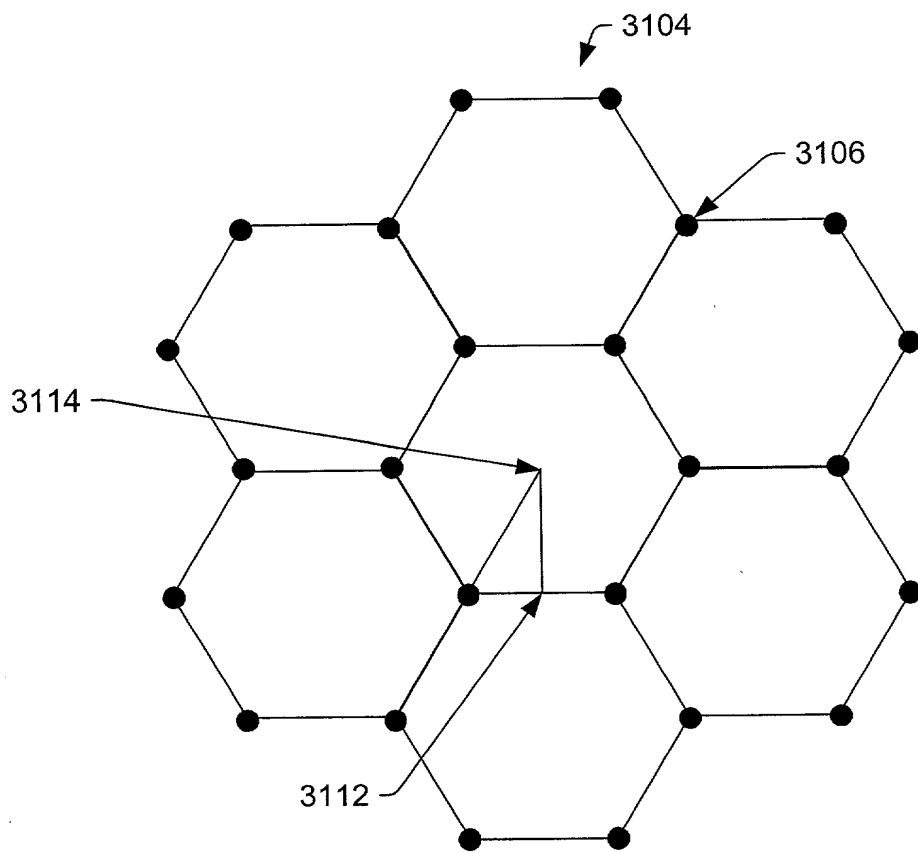


FIG. 65

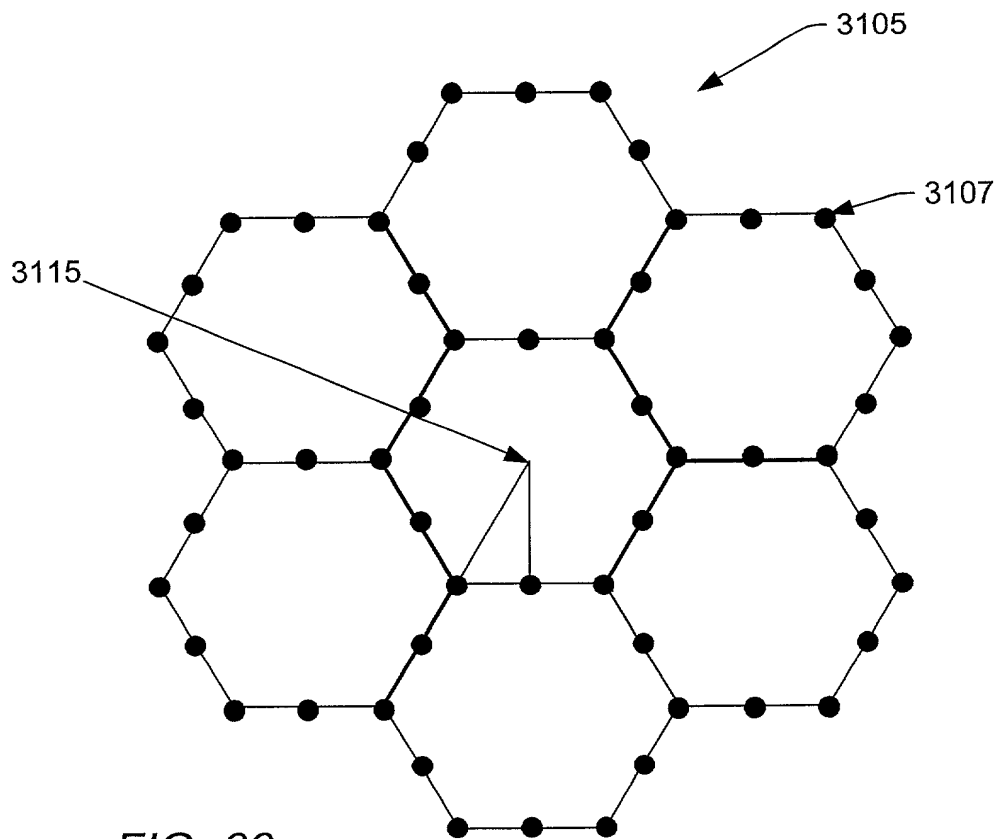


FIG. 66

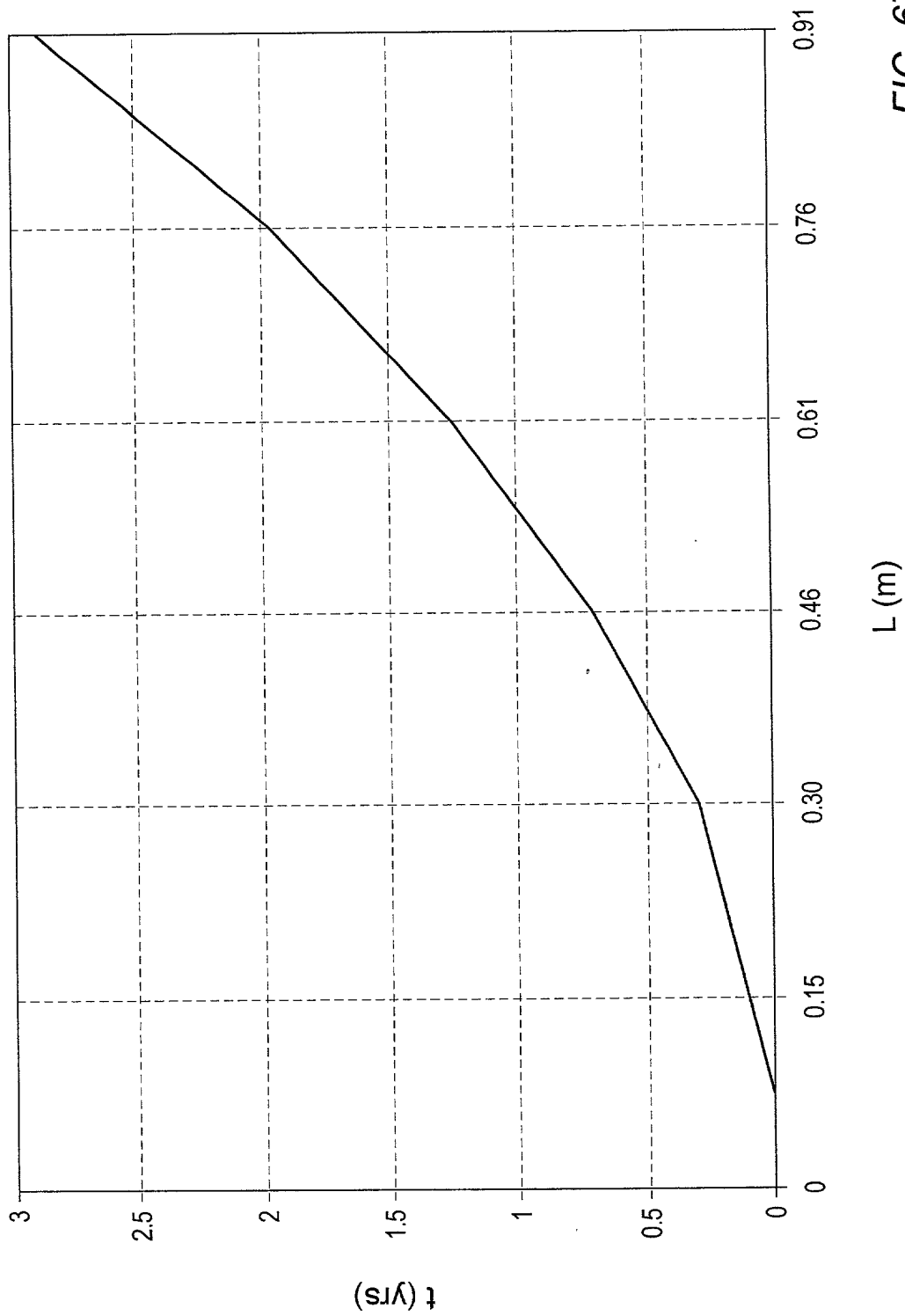


FIG. 67

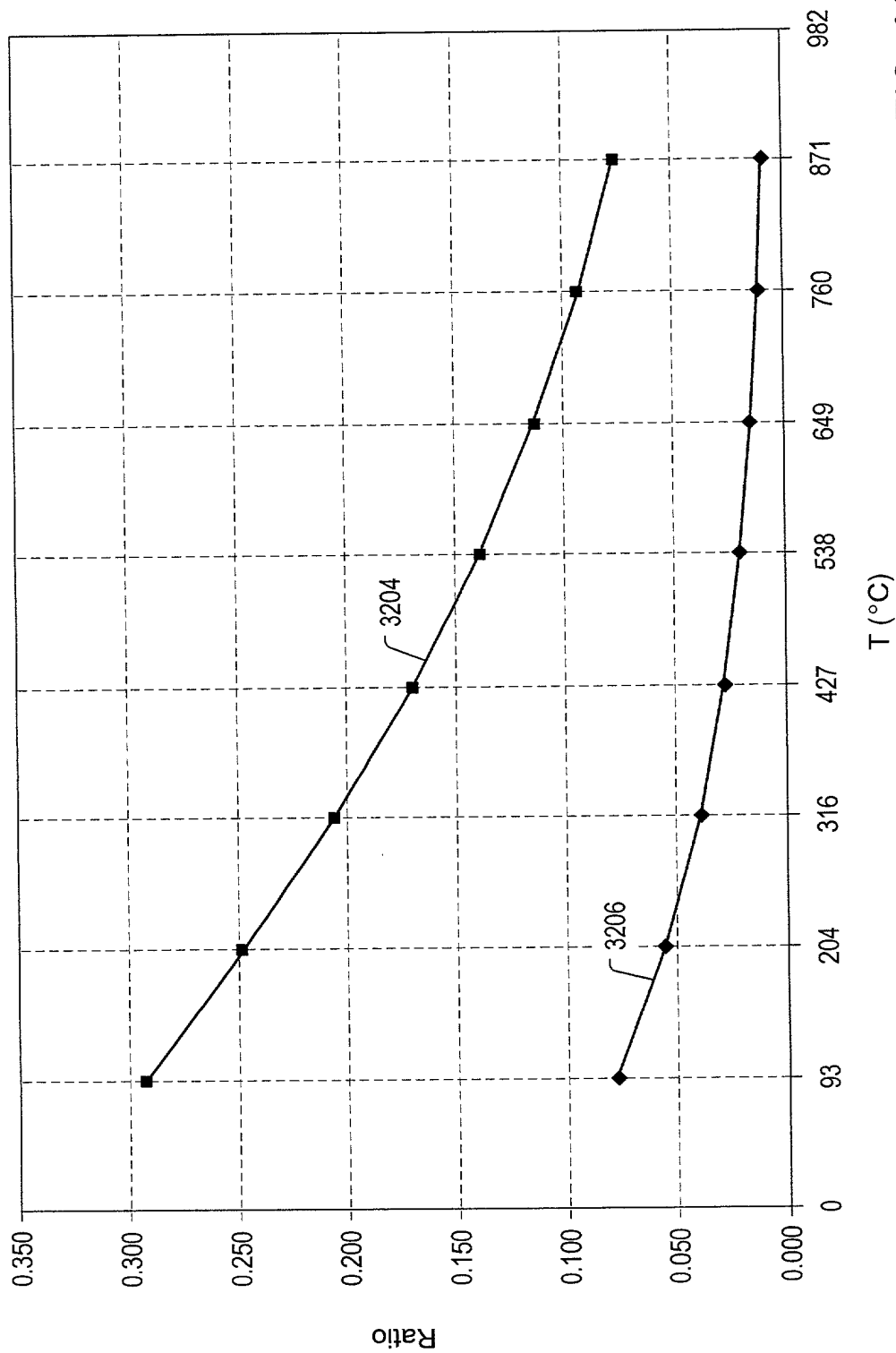


FIG. 68

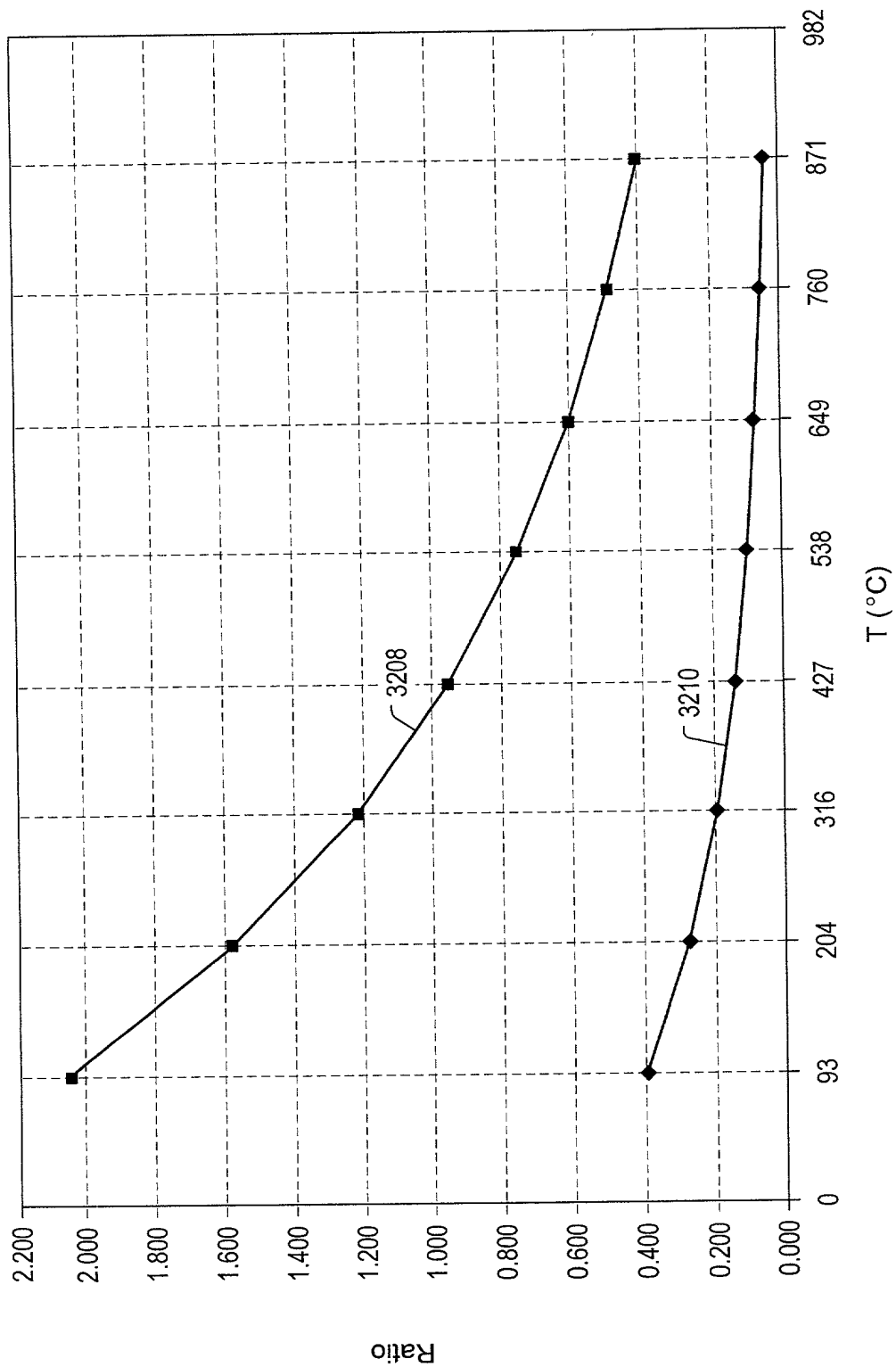


FIG. 69

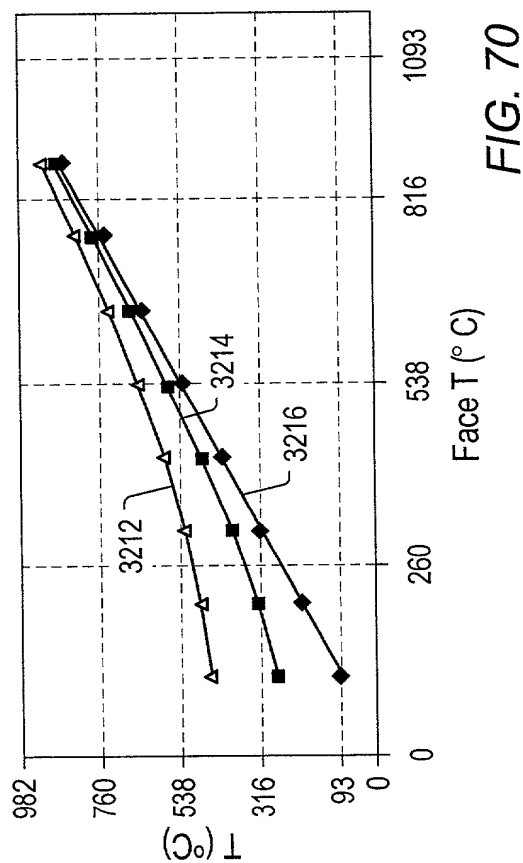


FIG. 70

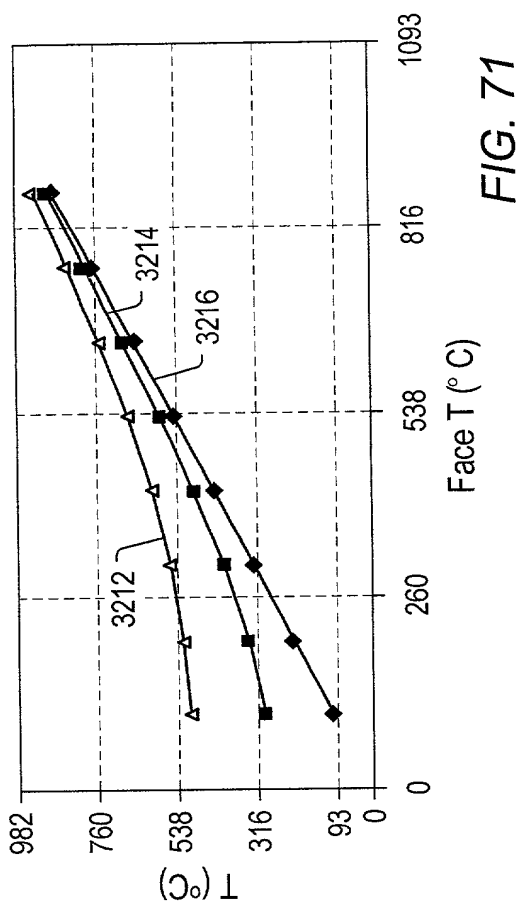


FIG. 71

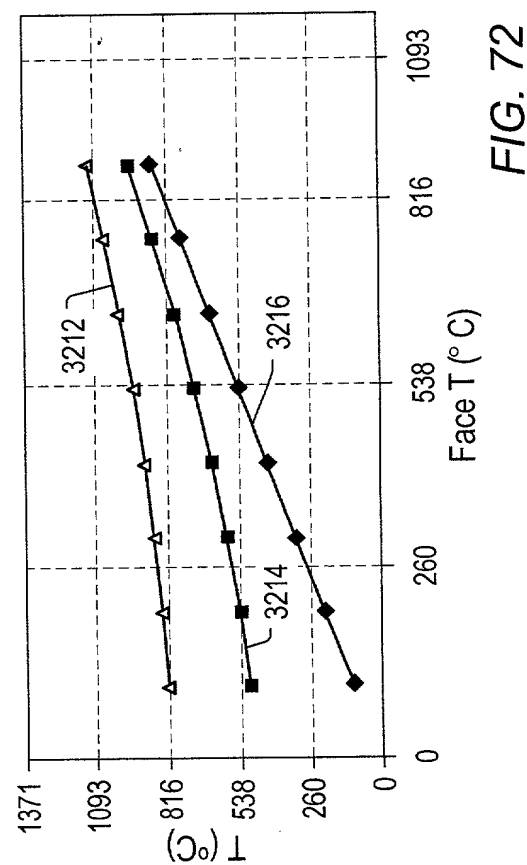


FIG. 72

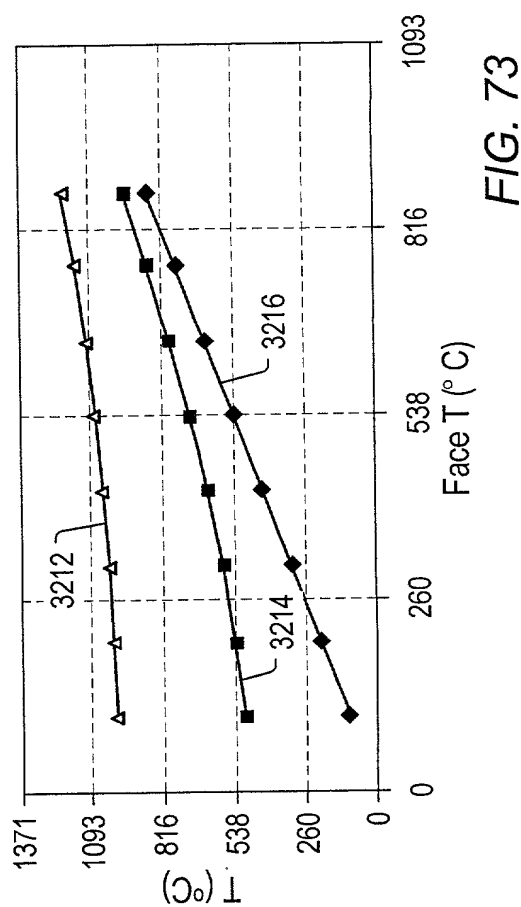


FIG. 73

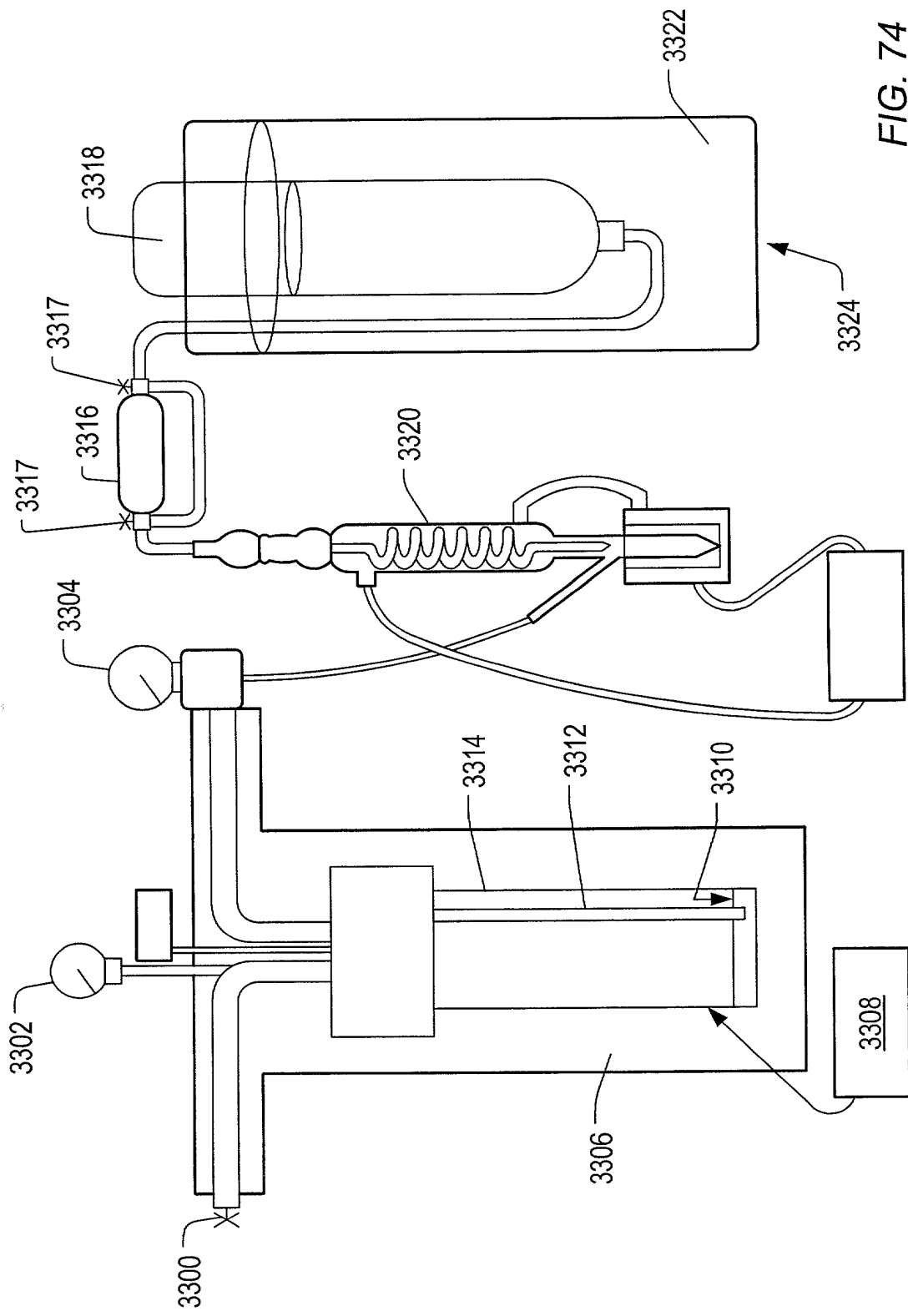


FIG. 74

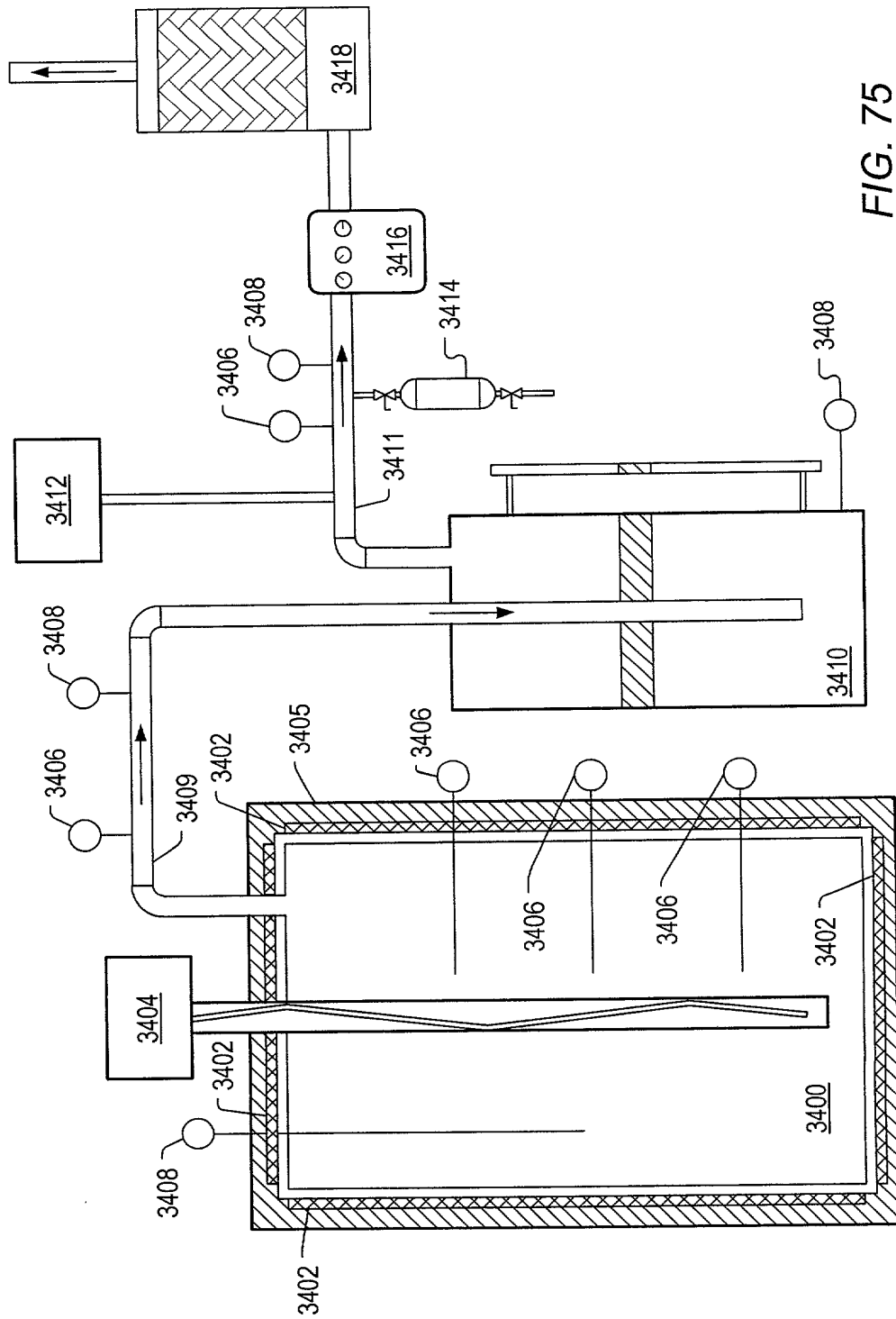


FIG. 75

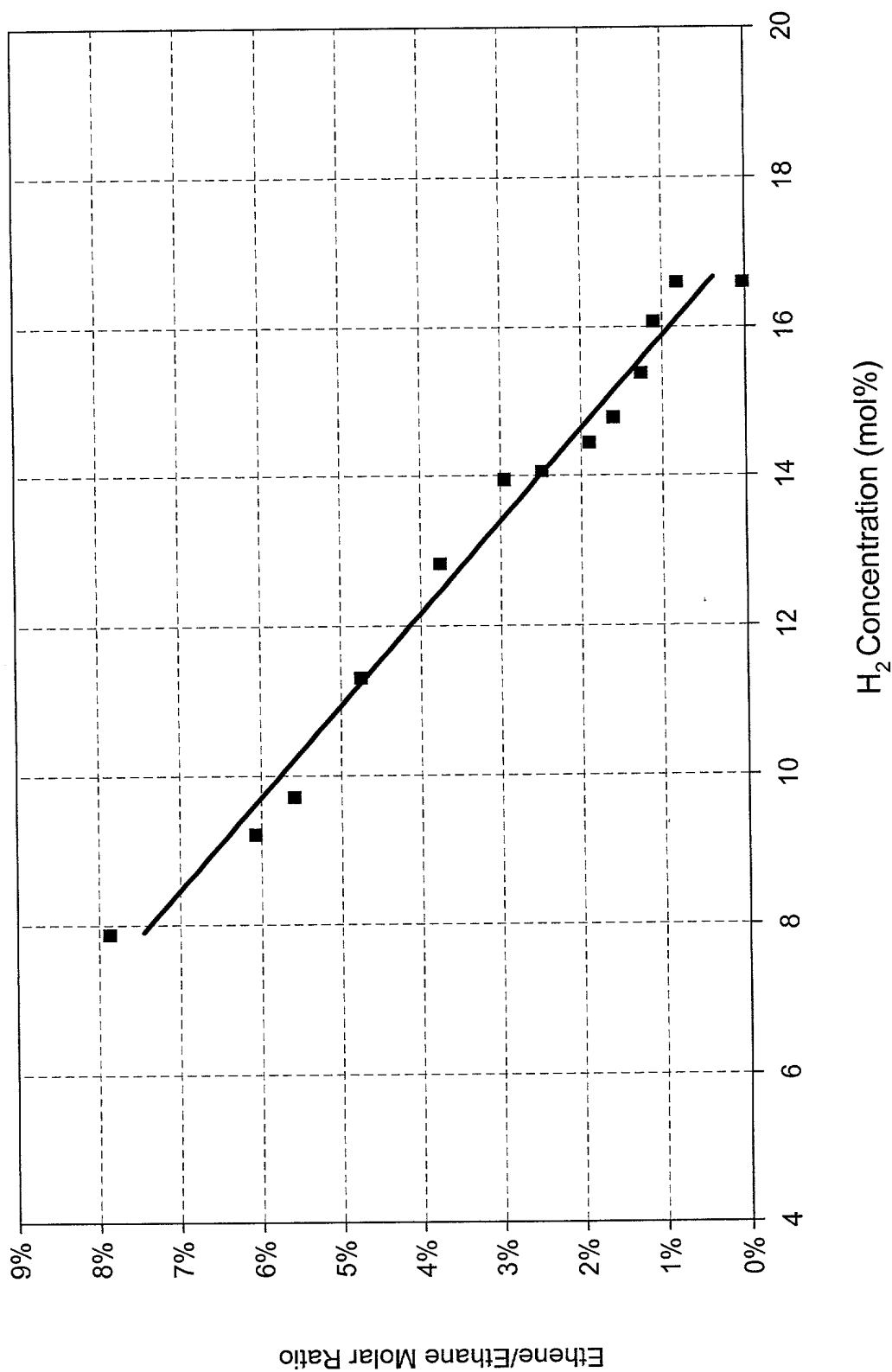


FIG. 76

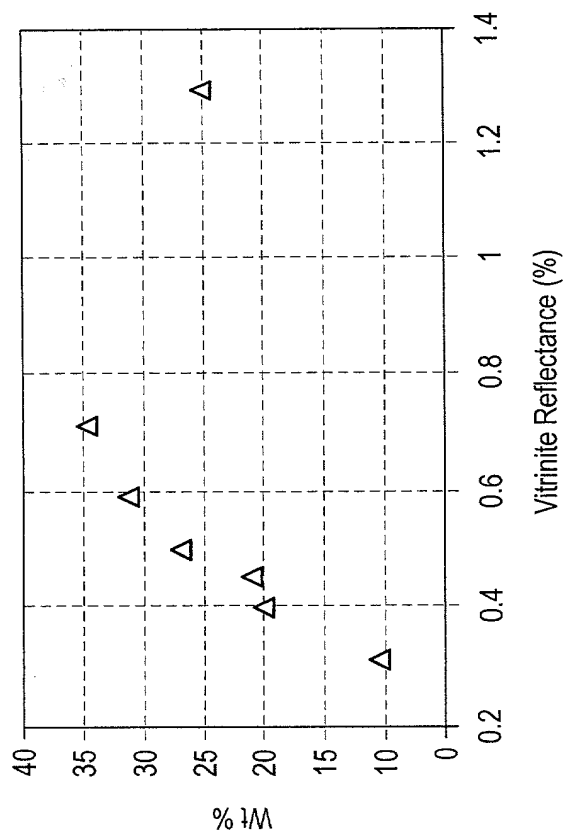


FIG. 77

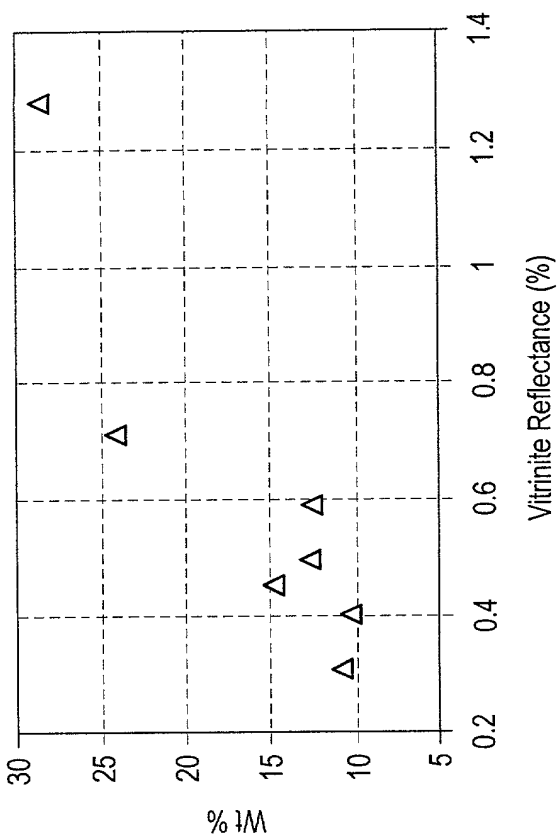


FIG. 78

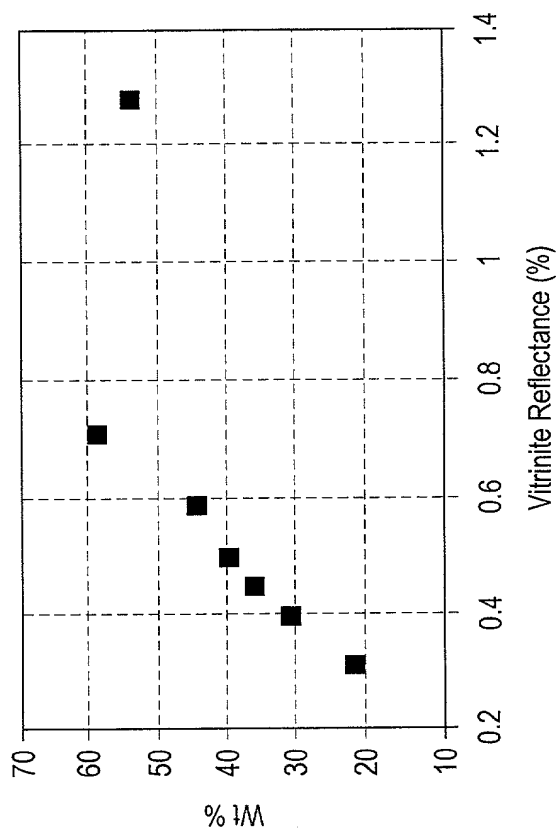


FIG. 79

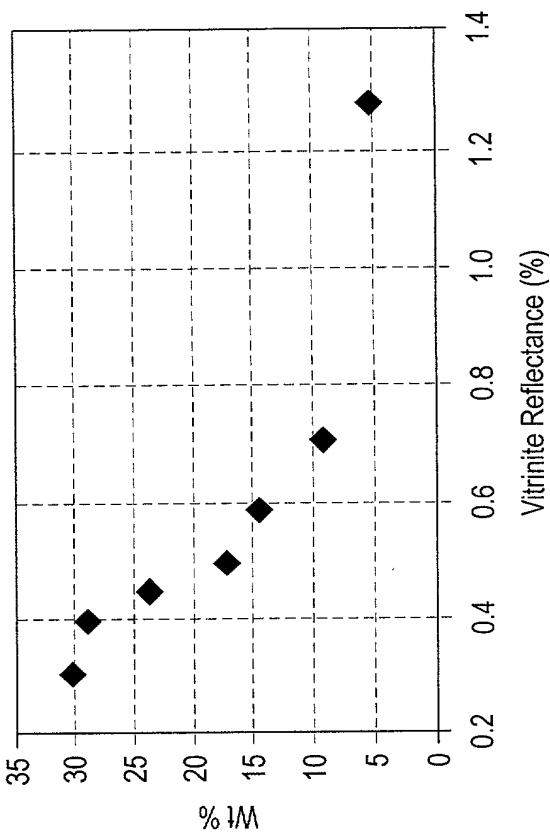


FIG. 80

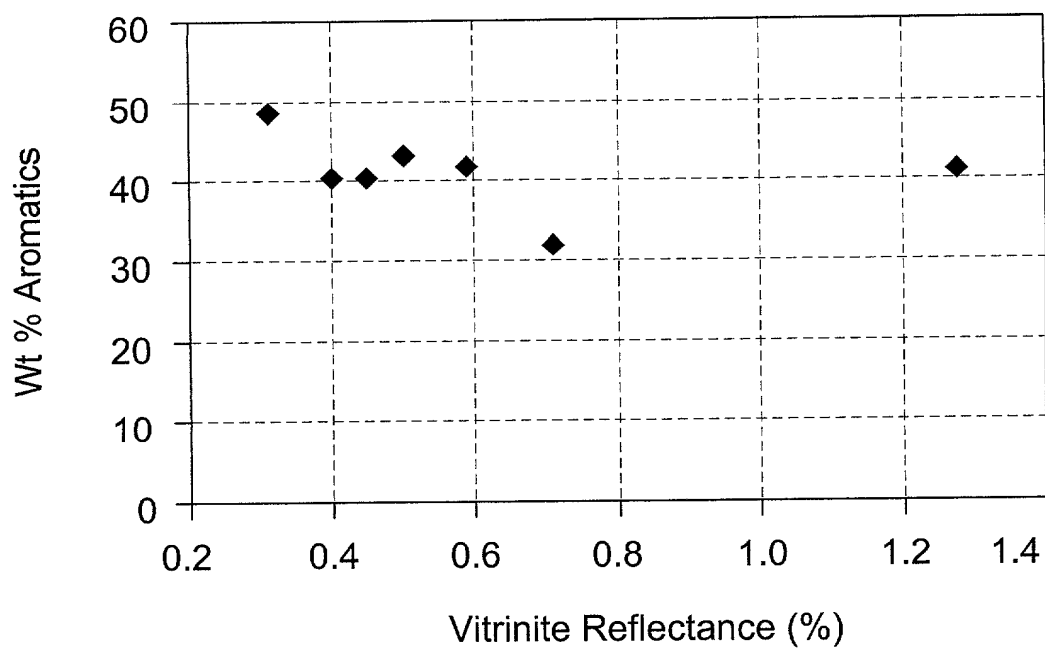


FIG. 81

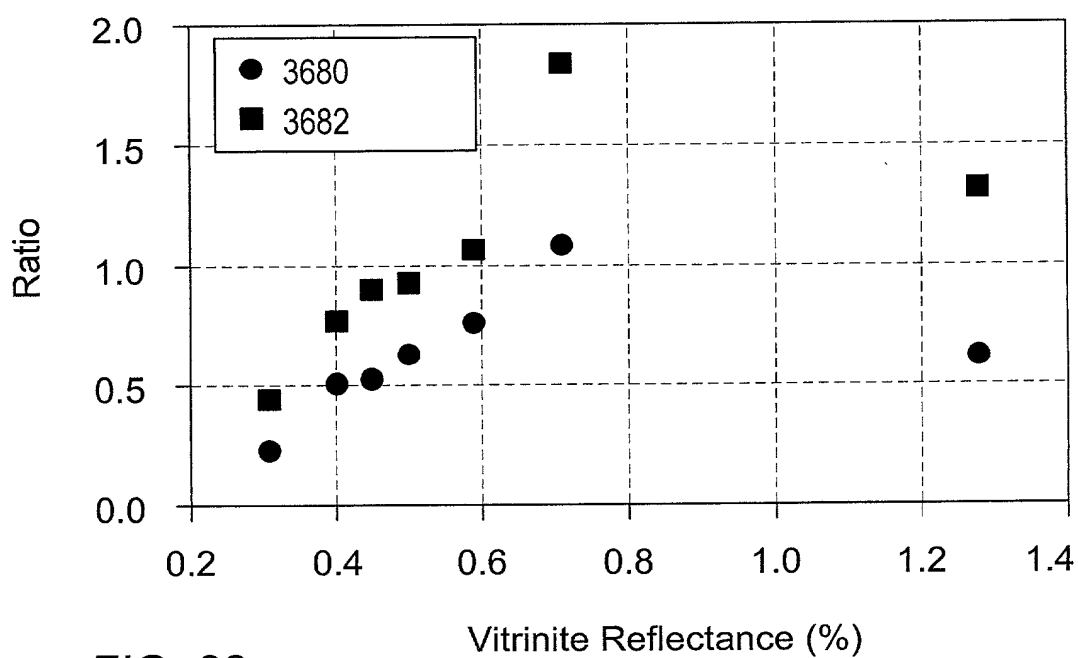


FIG. 82

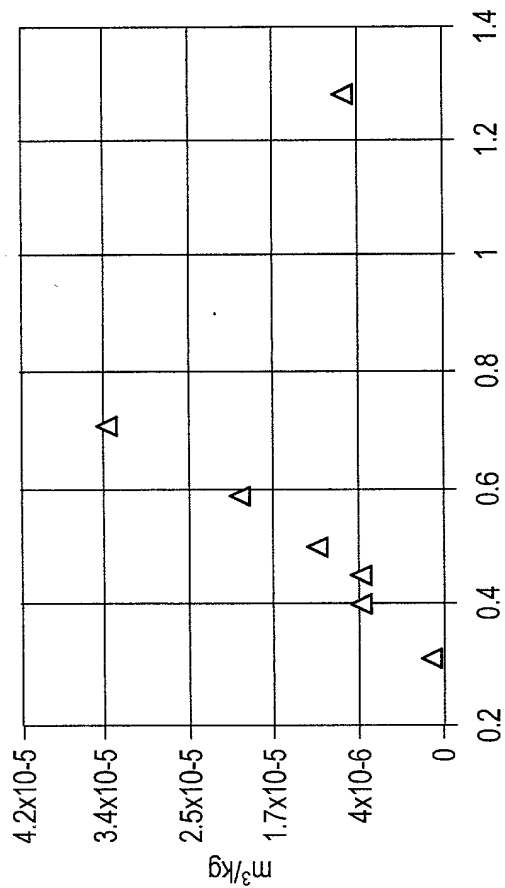


FIG. 83

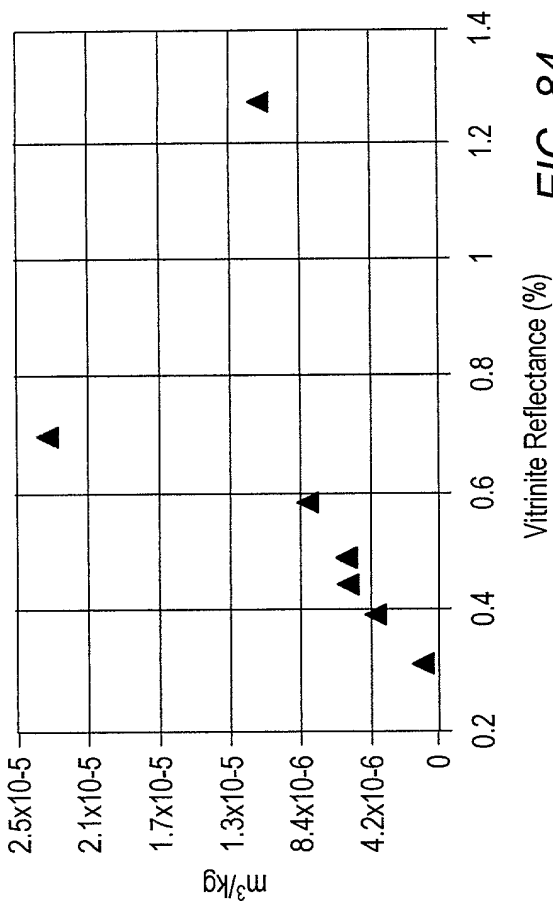


FIG. 84

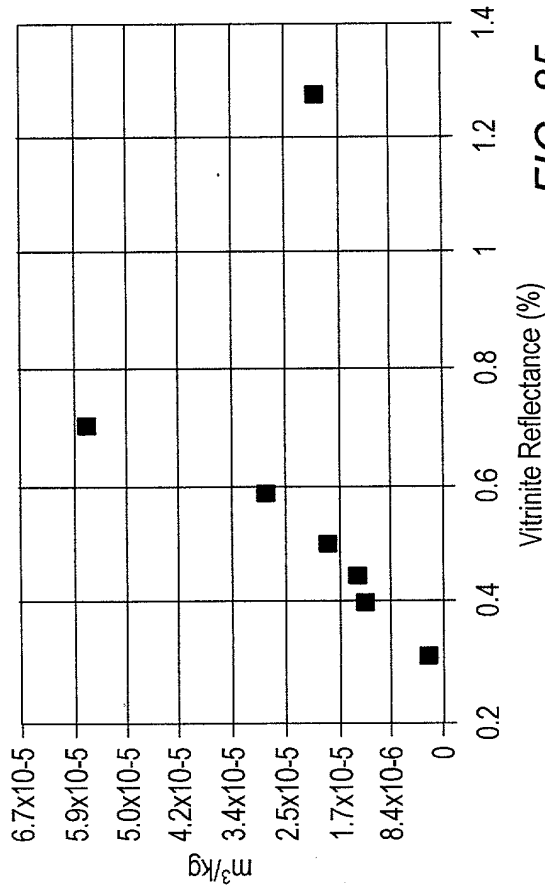


FIG. 85

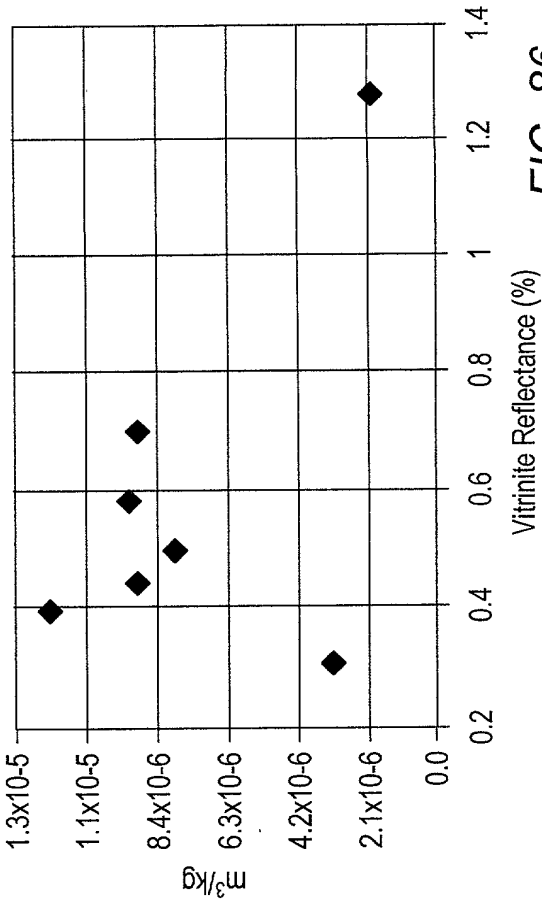


FIG. 86

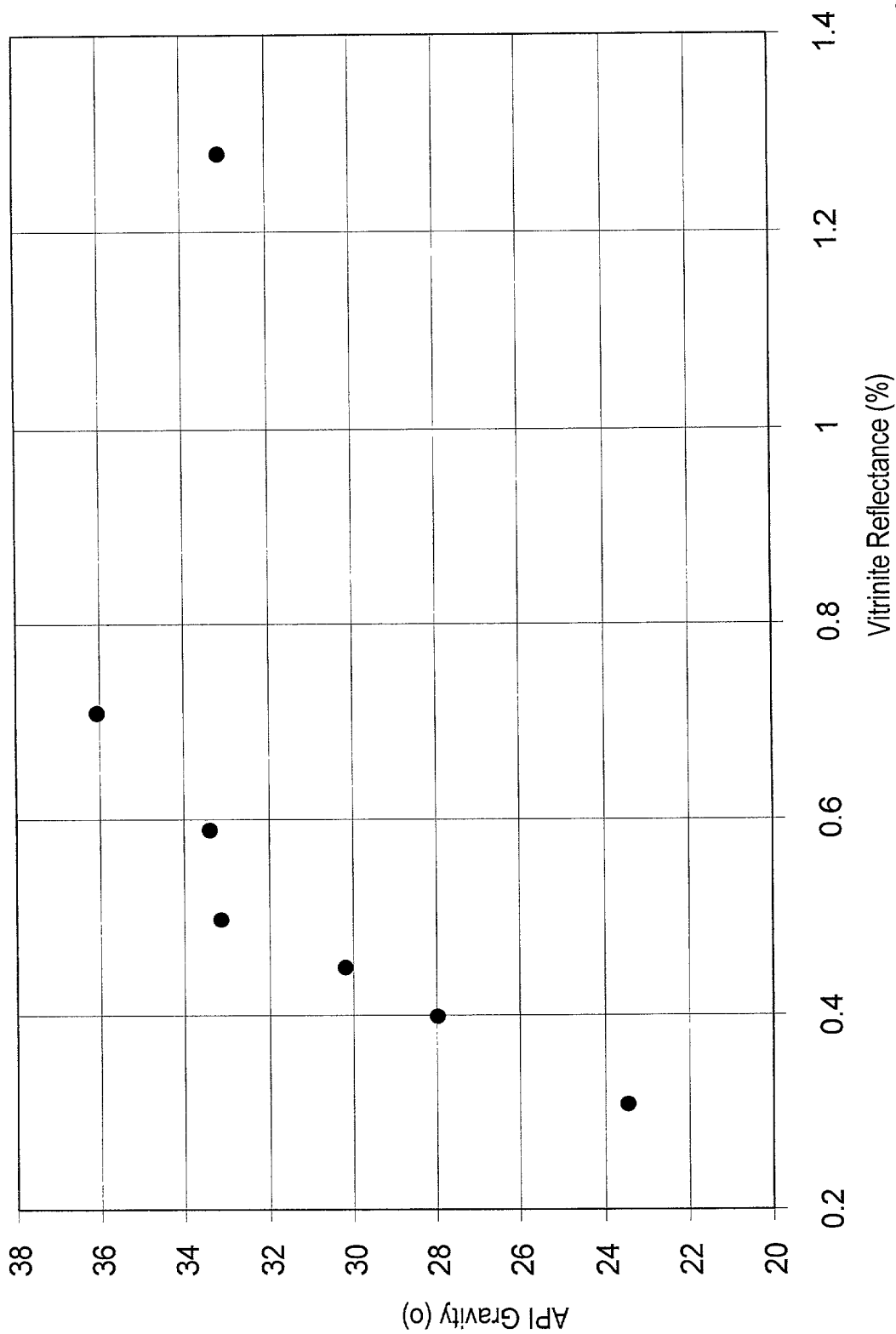
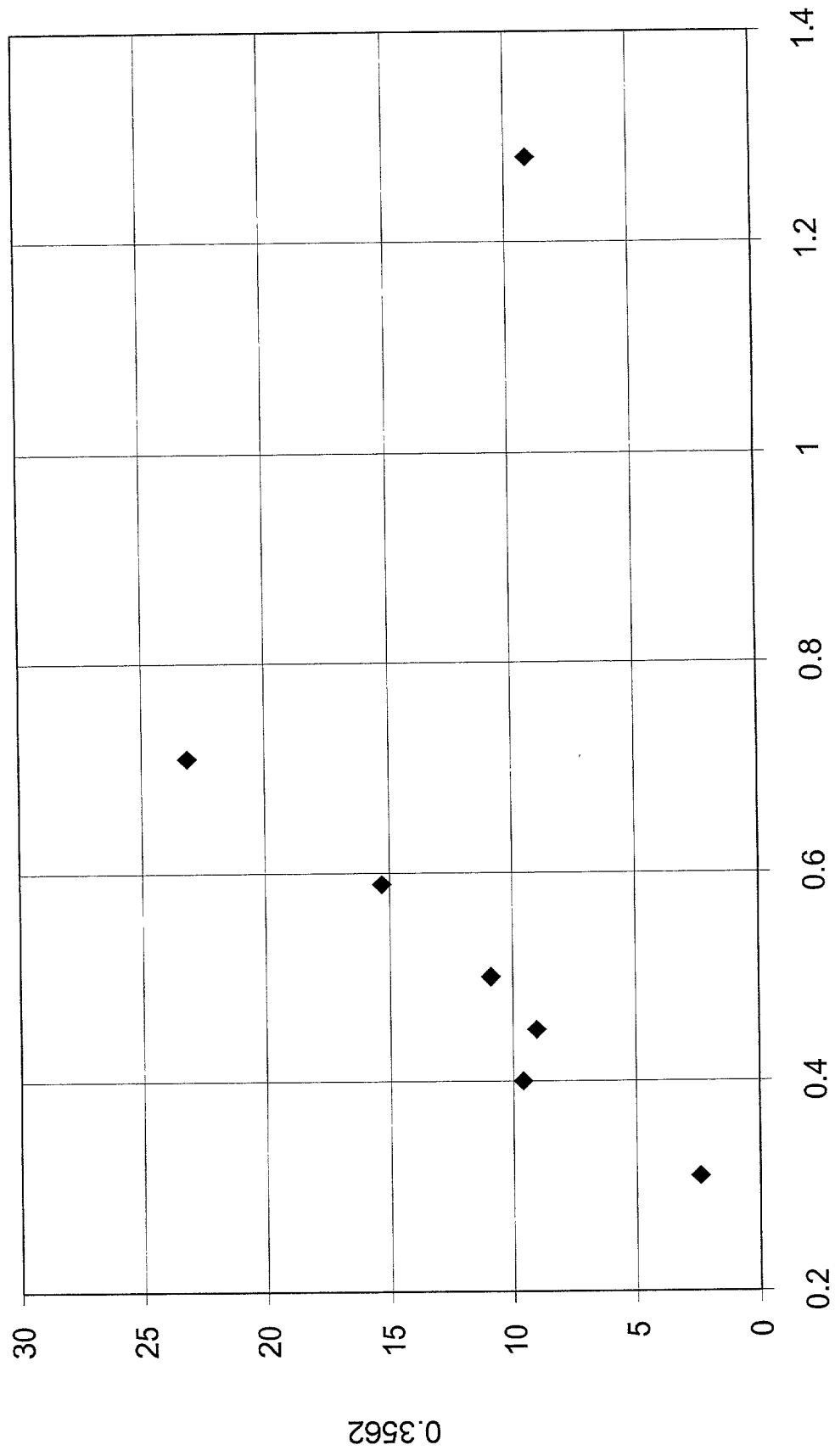


FIG. 87



Vitrinite Reflectance (%)

FIG. 88

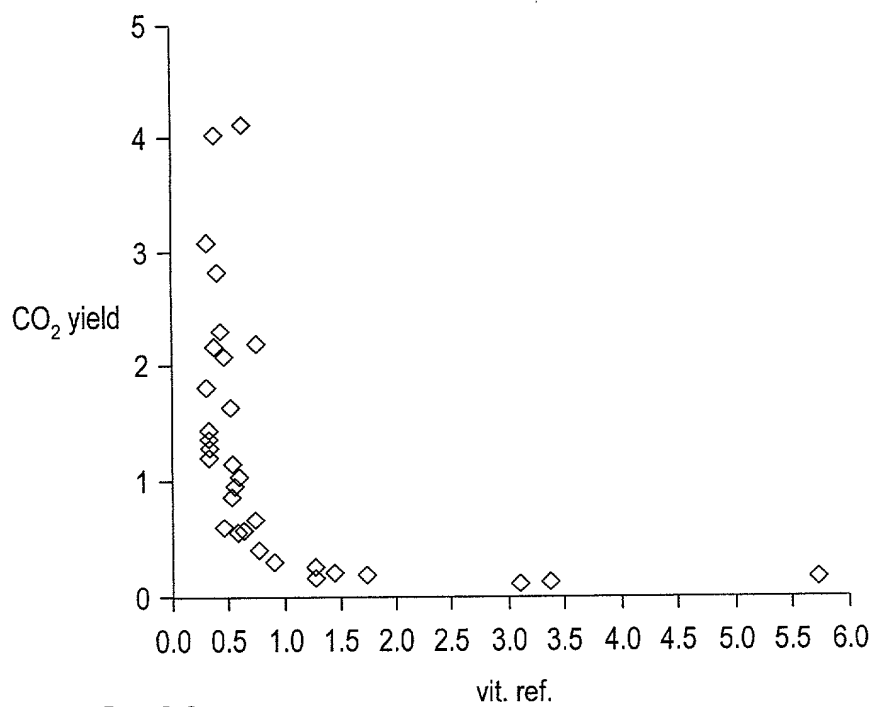


FIG. 89

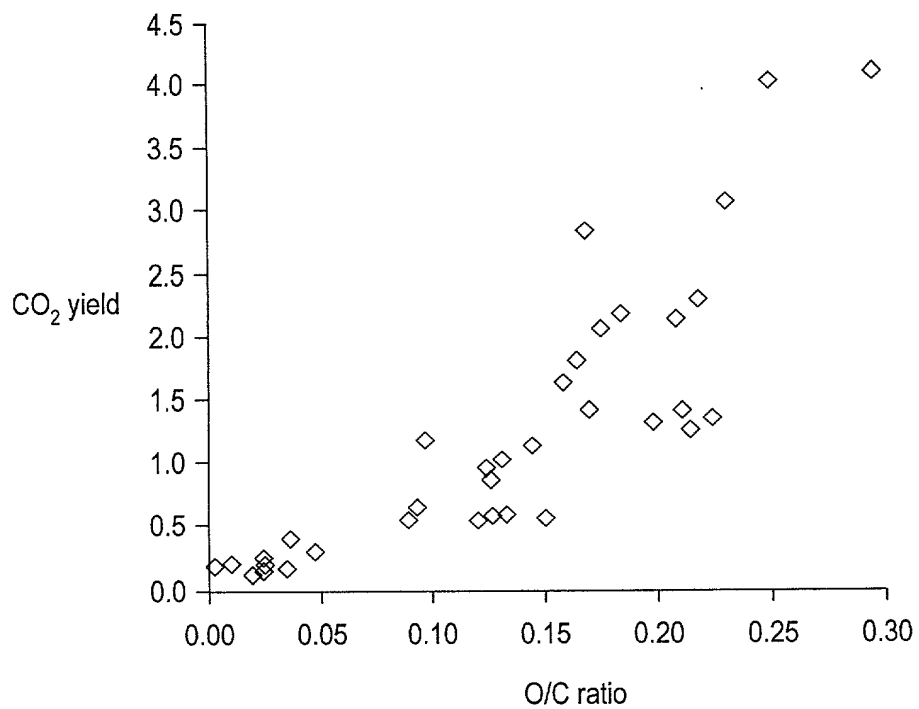


FIG. 90

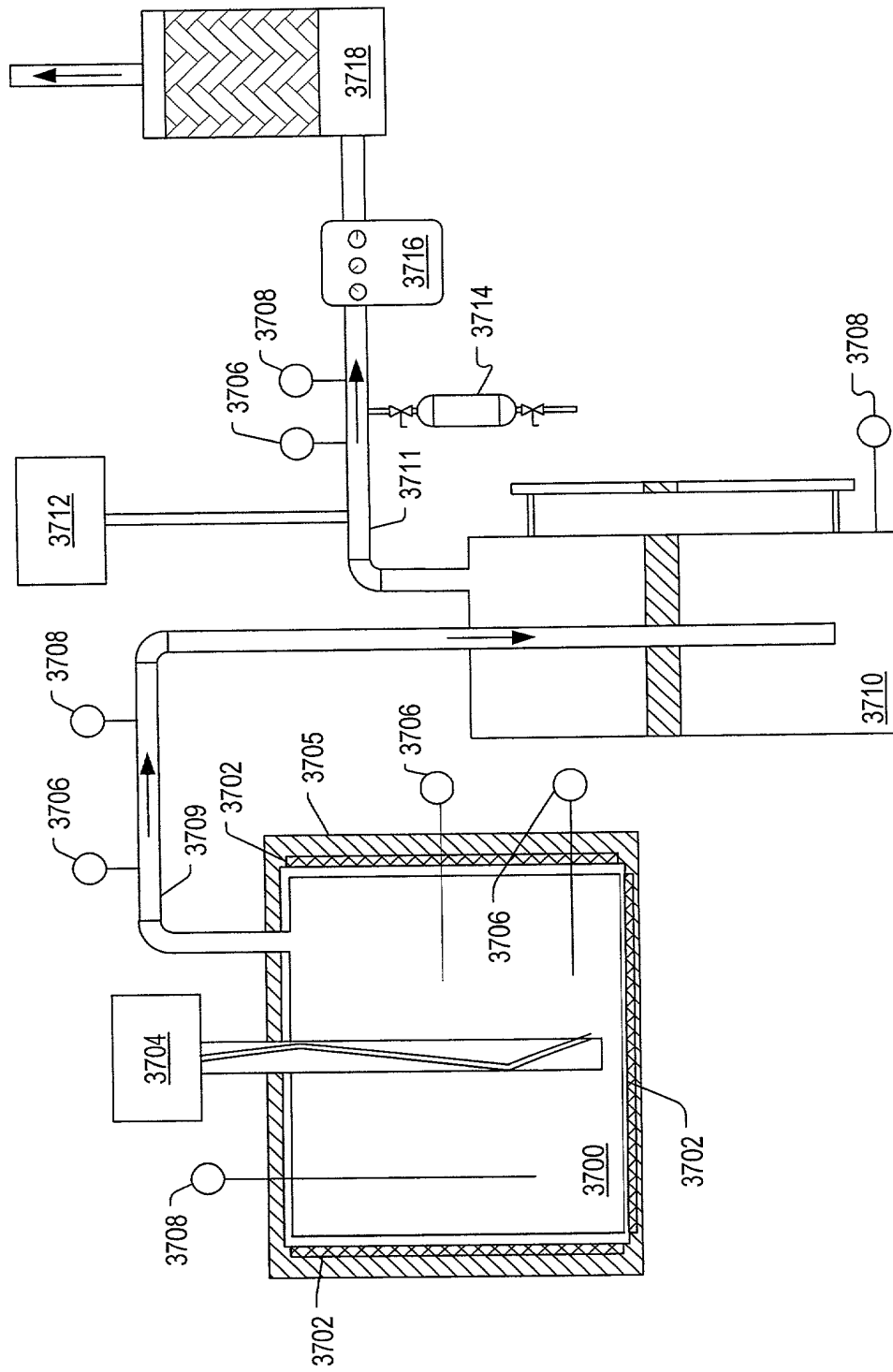
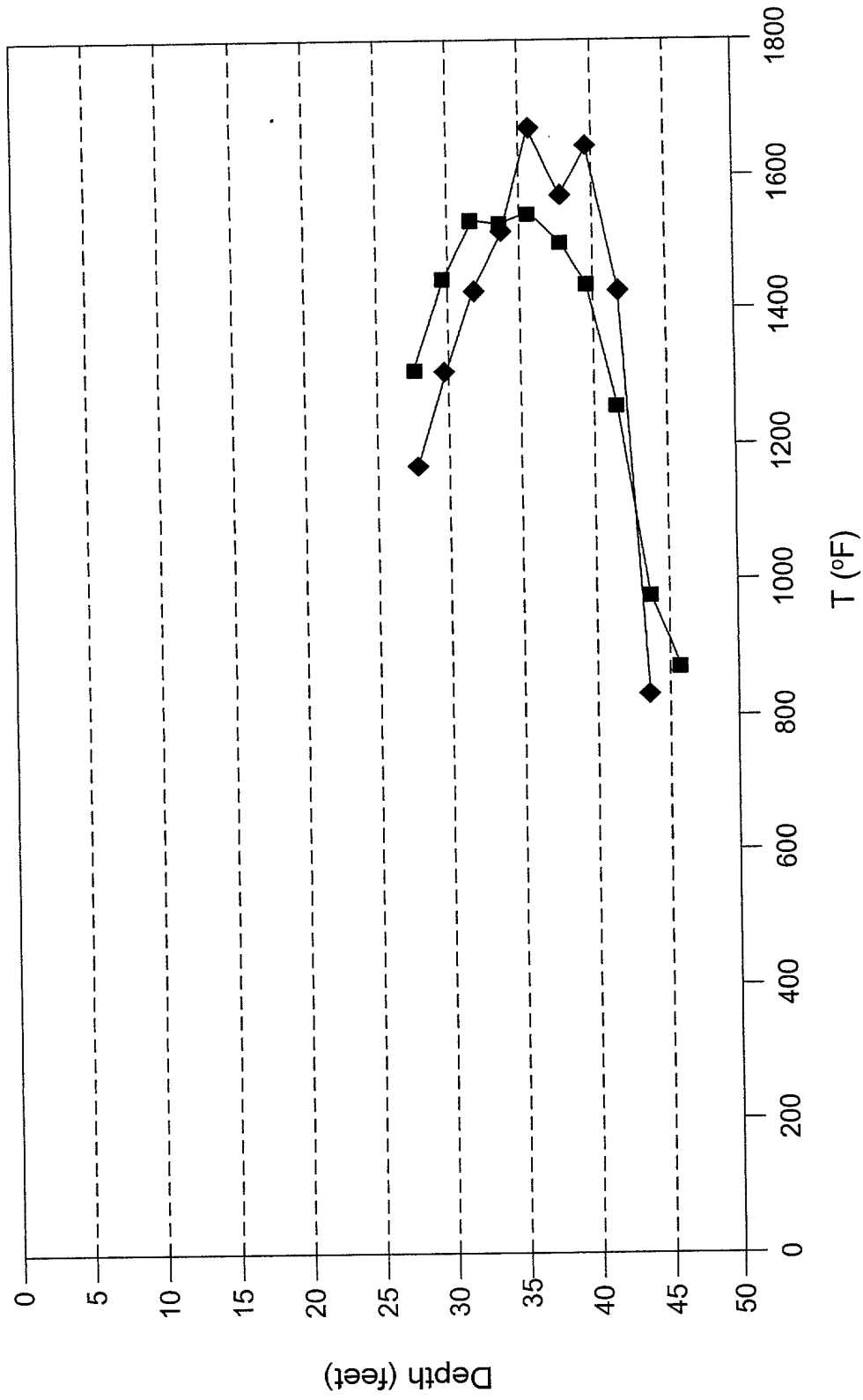


FIG. 91

FIG. 92



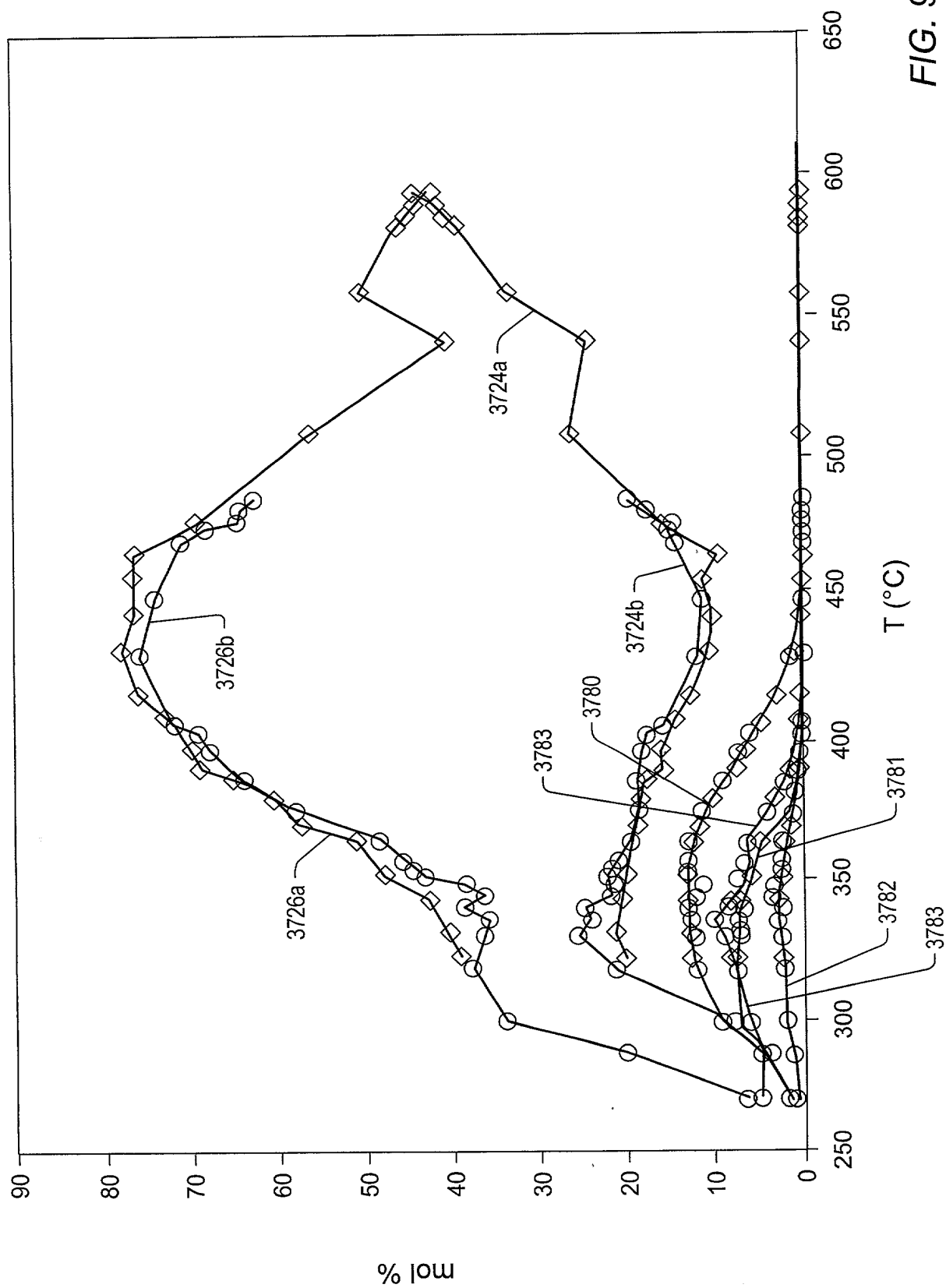


FIG. 93

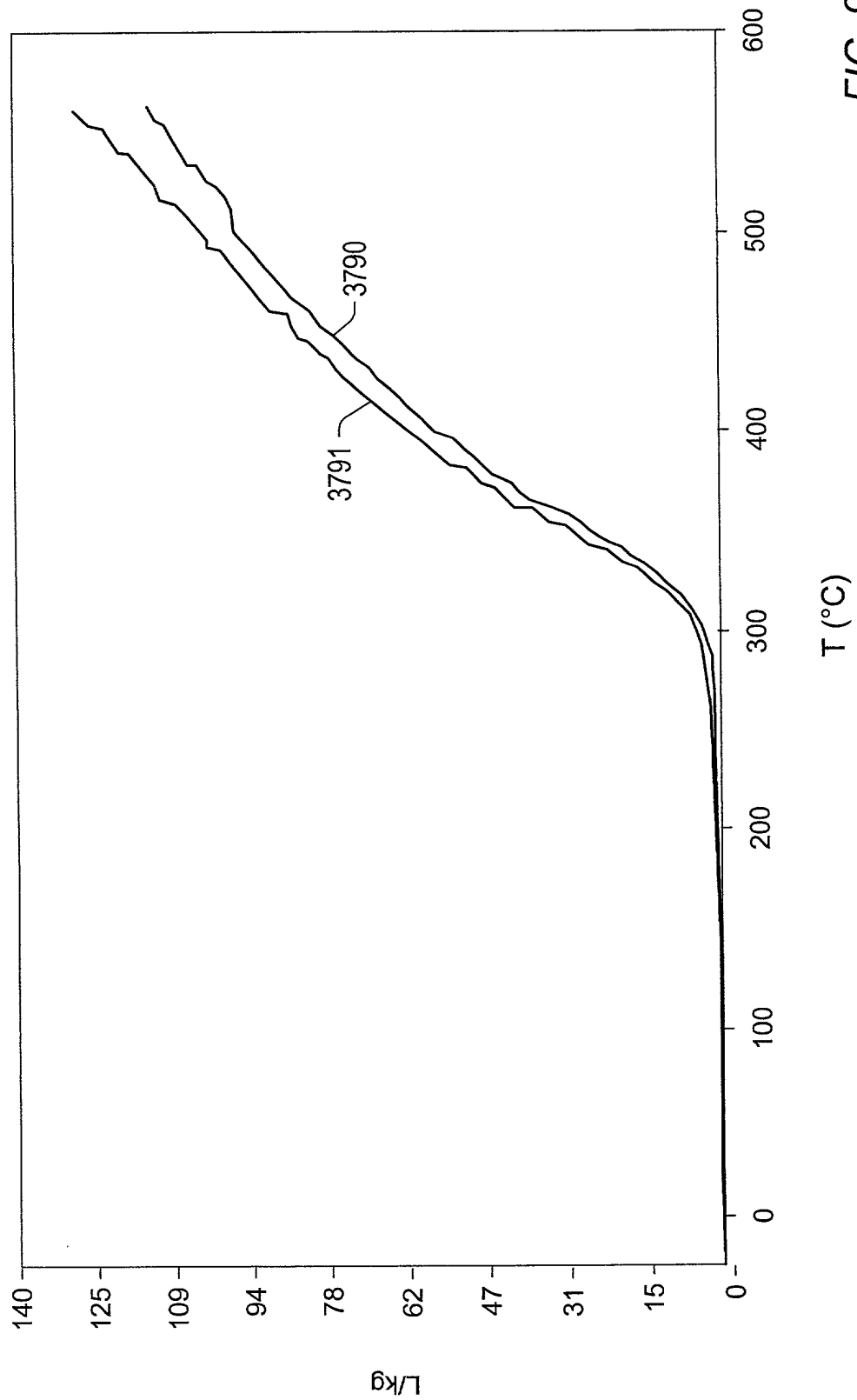


FIG. 94

Figure 1 is a line graph showing the temperature dependence of the apparent equilibrium constant, K^{app} , for the reaction of 2,4-dinitrophenol with 2,4-dinitrophenoxide. The y-axis represents $(1 \times 10^{-2}) \text{ L/kg}$ and ranges from 0 to 7.5. The x-axis represents temperature T in $^{\circ}\text{C}$ and ranges from 0 to 600. Two data series are plotted: one with open circles (labeled 3720) and one with open squares (labeled 3722). Both series show a sharp increase in K^{app} as temperature decreases below 400 $^{\circ}\text{C}$, with the circle series reaching a plateau around 6.7 and the square series around 5.8.

T ($^{\circ}\text{C}$)	K^{app} (Series 3720, \circ)	K^{app} (Series 3722, \square)
550	6.7	5.8
500	6.7	5.8
450	6.7	5.8
400	6.7	5.8
350	6.7	5.8
300	6.7	5.8
250	6.7	5.8
200	6.7	5.8
150	6.7	5.8
100	6.7	5.8
50	6.7	5.8
0	6.7	5.8

FIG. 95

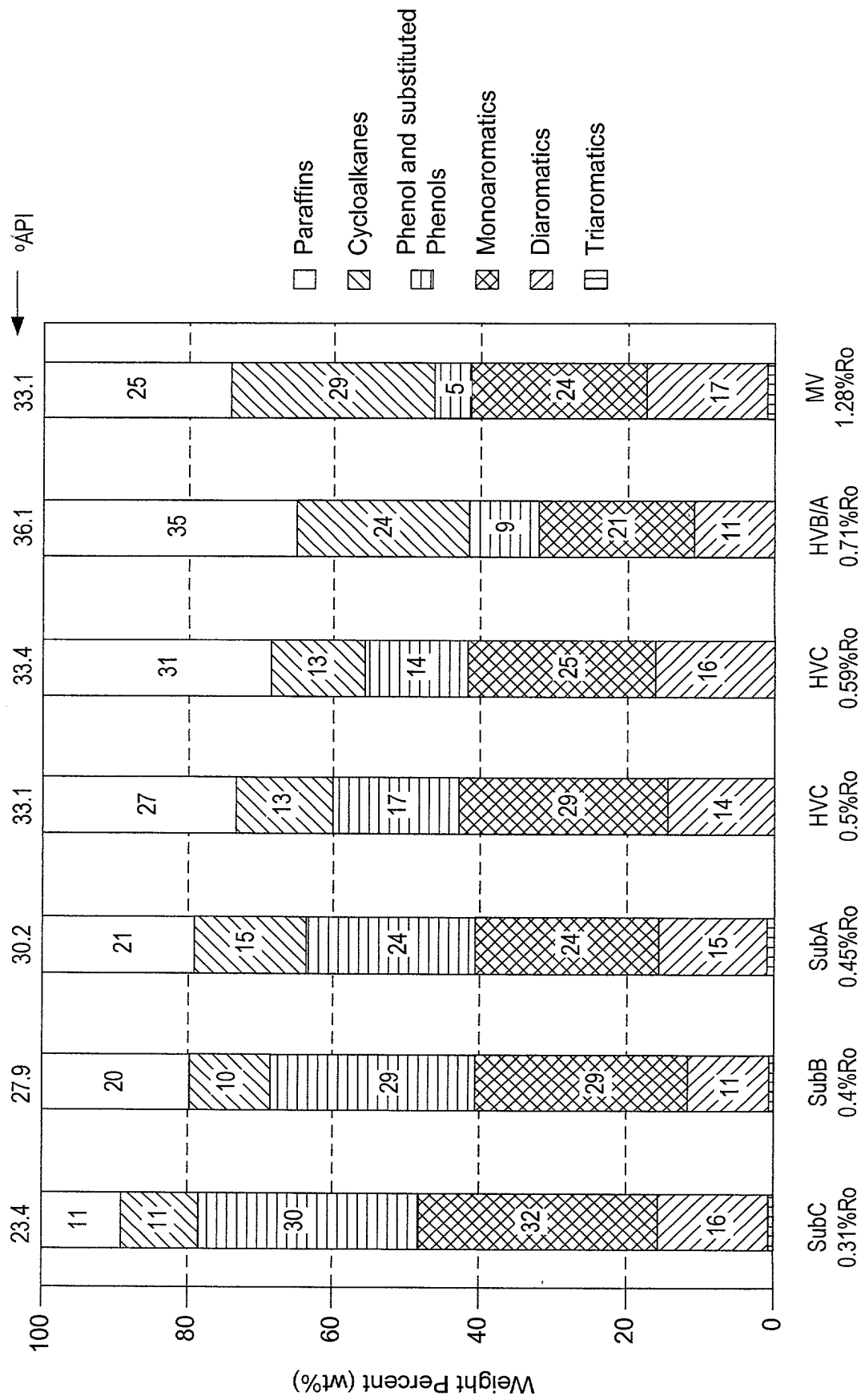


FIG. 96

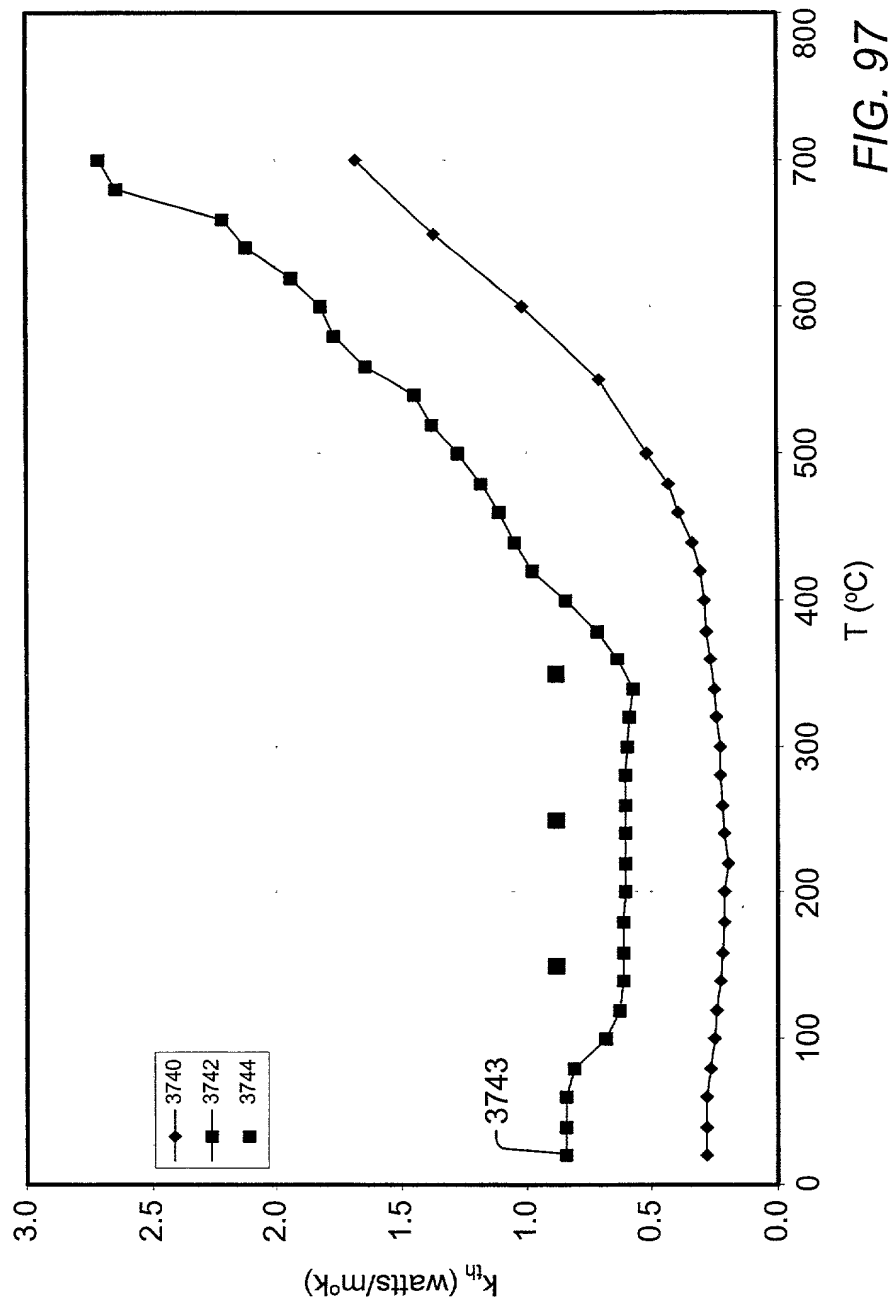


FIG. 97

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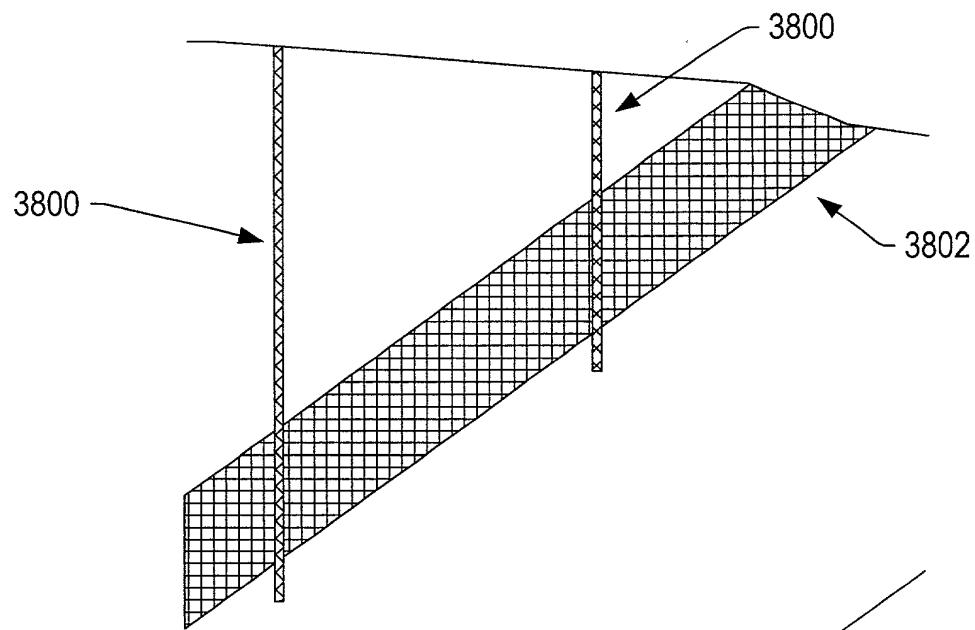


FIG. 98

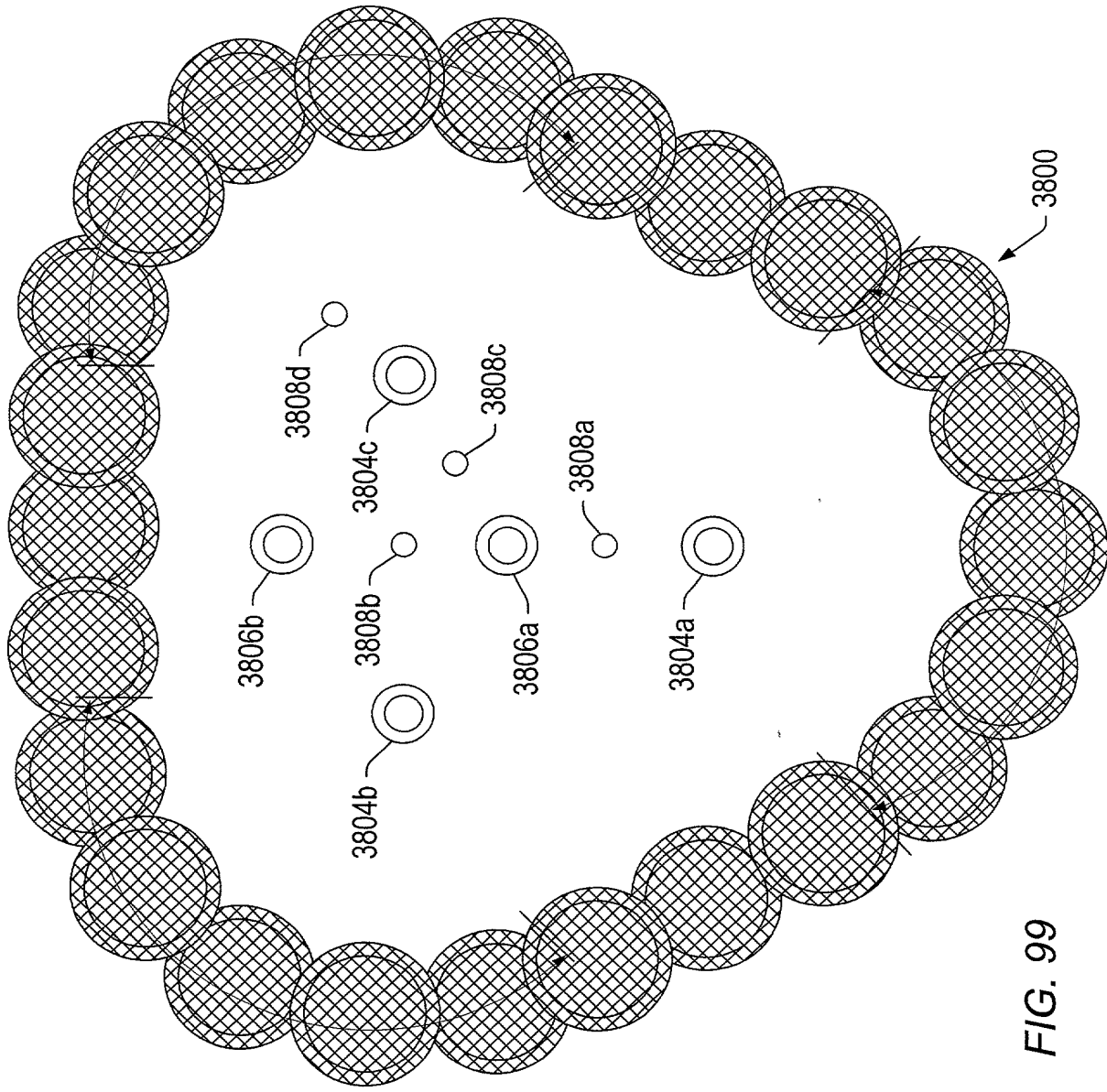


FIG. 99

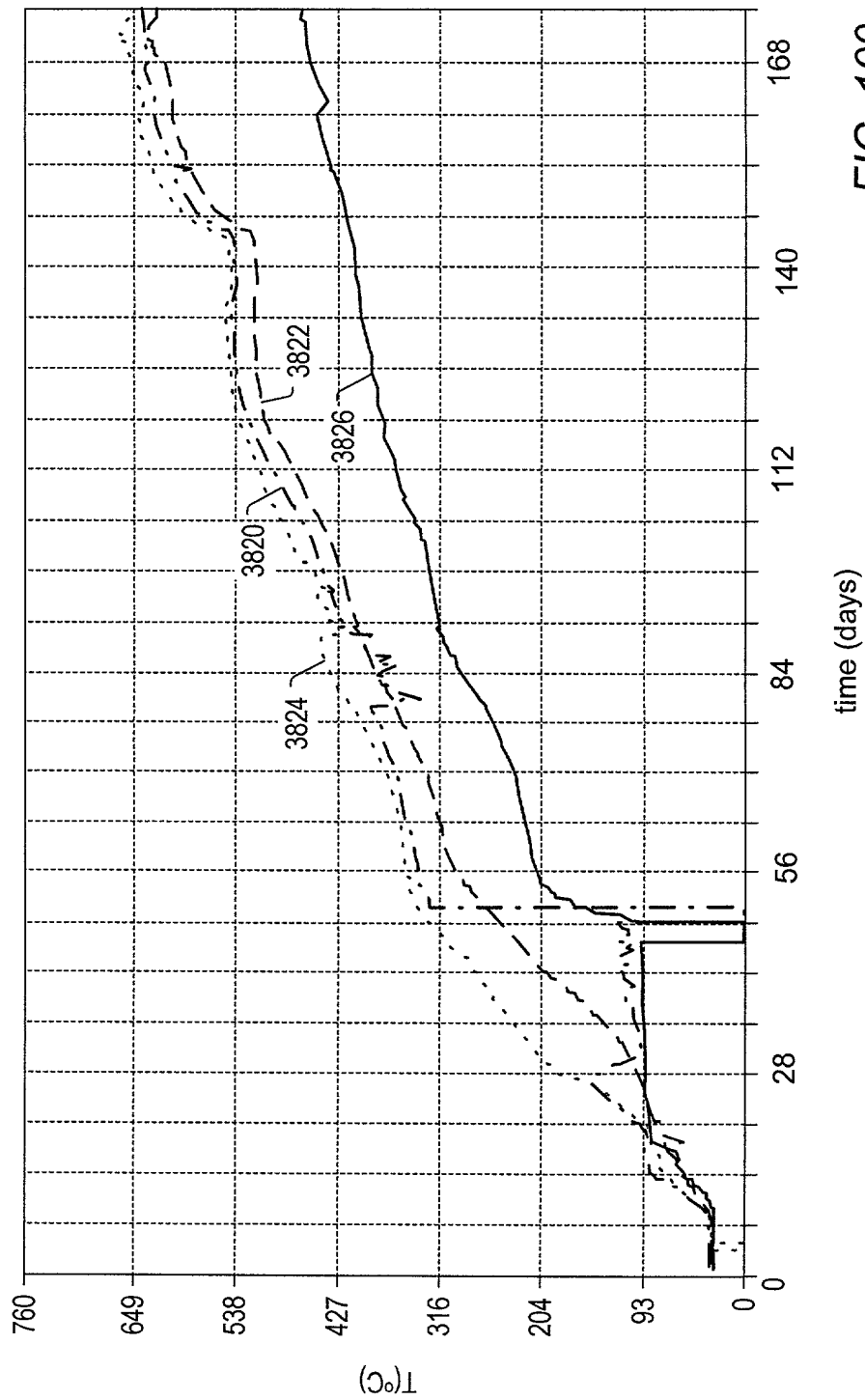


FIG. 100

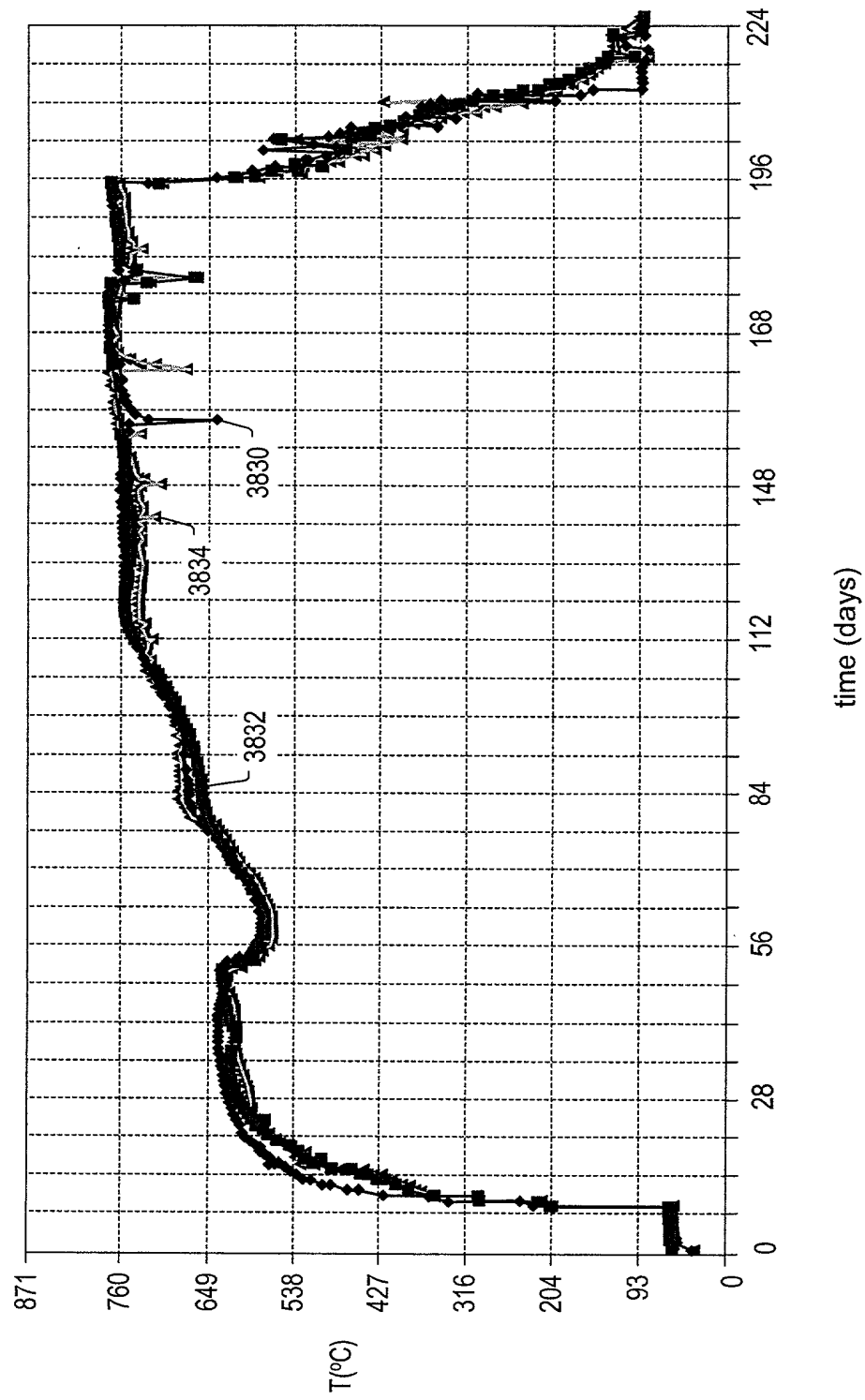


FIG. 101

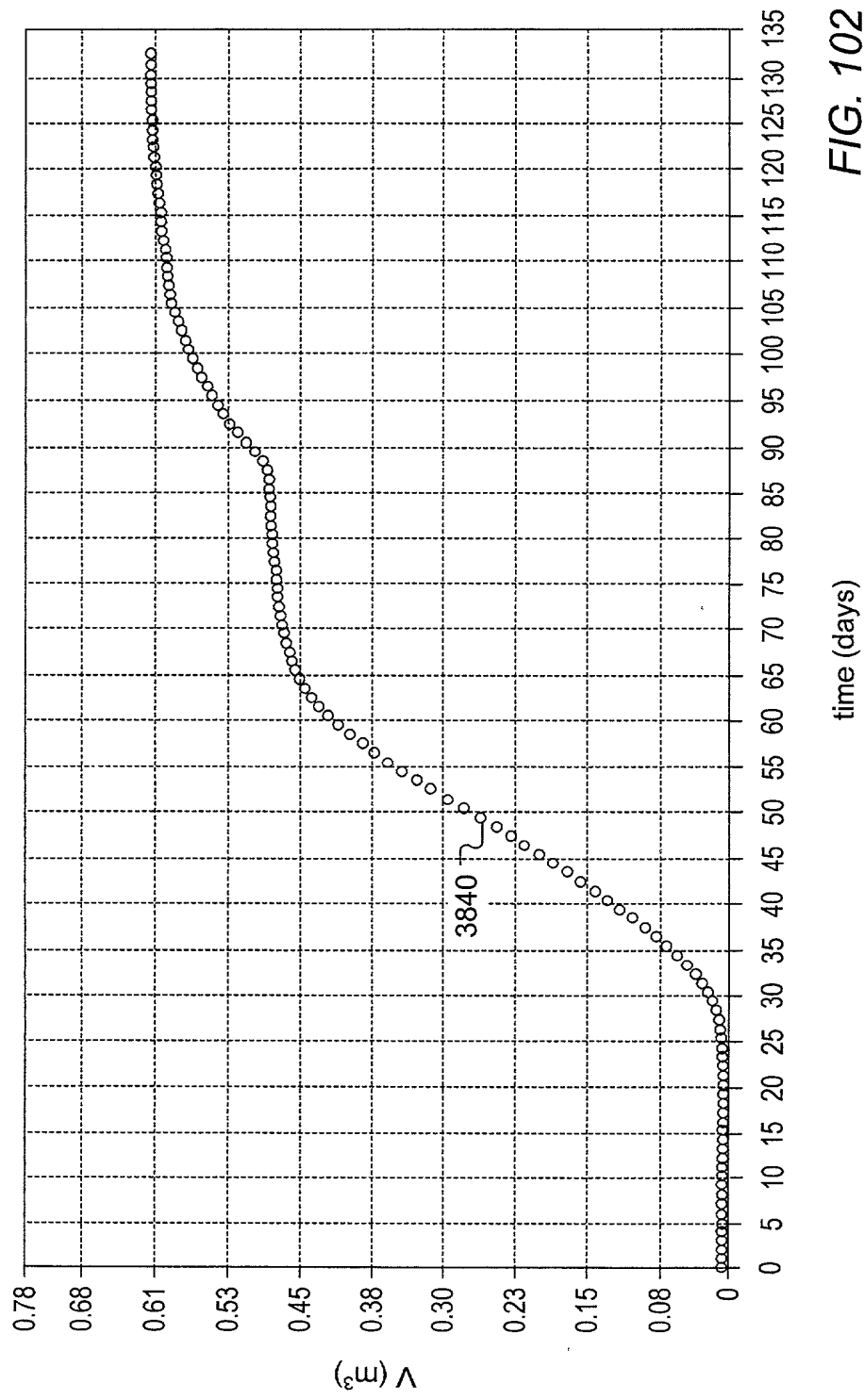
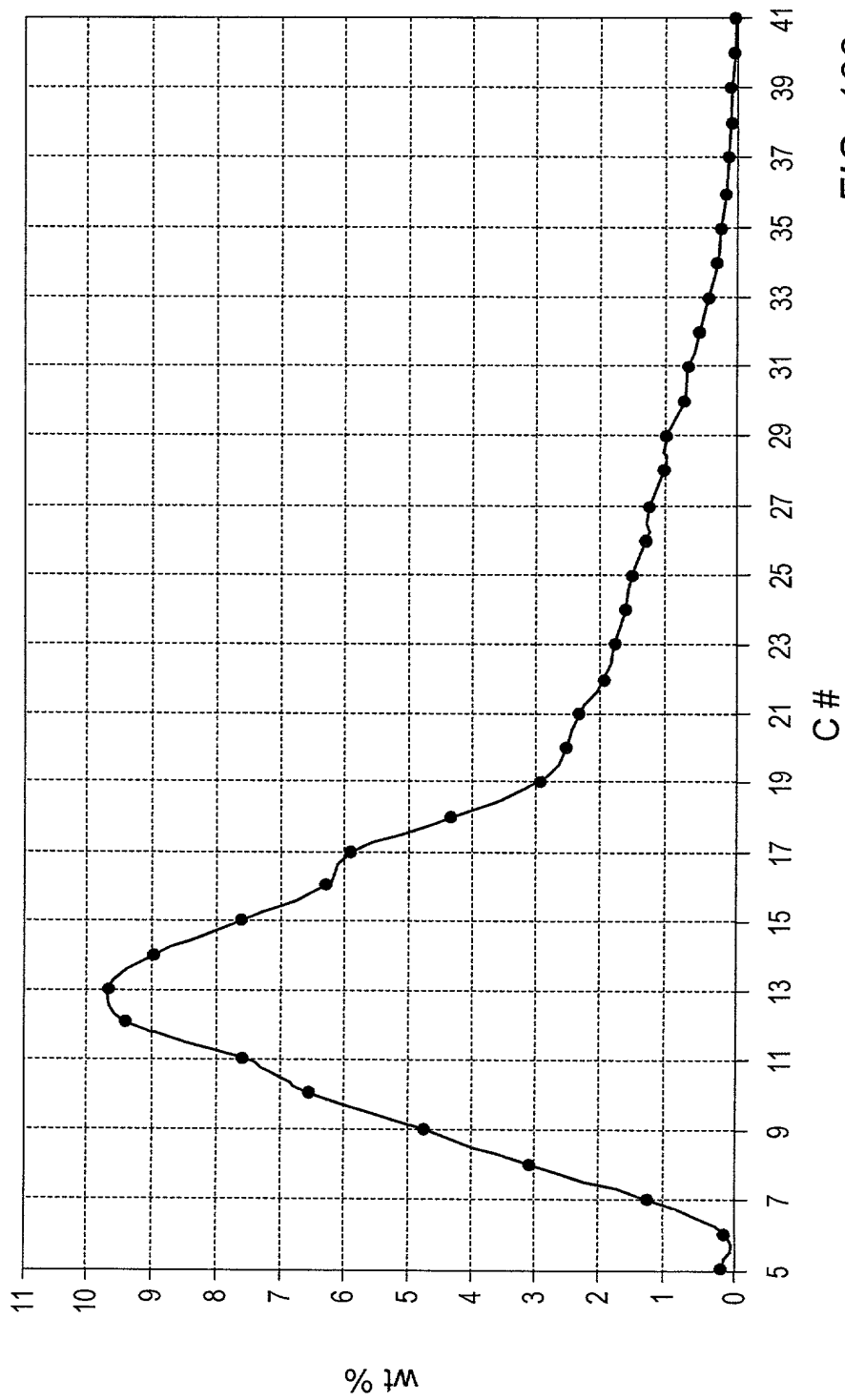


FIG. 102



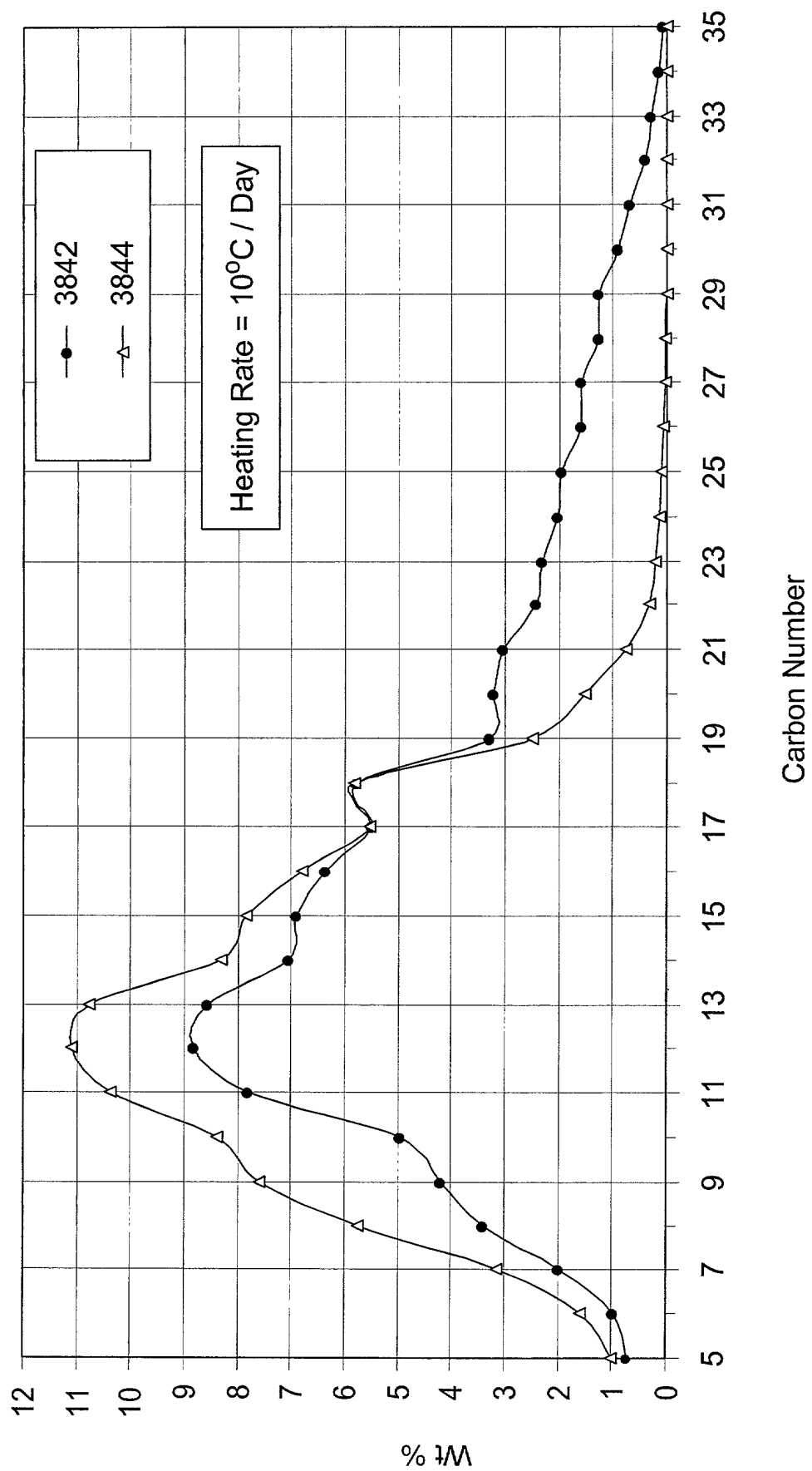


FIG. 104

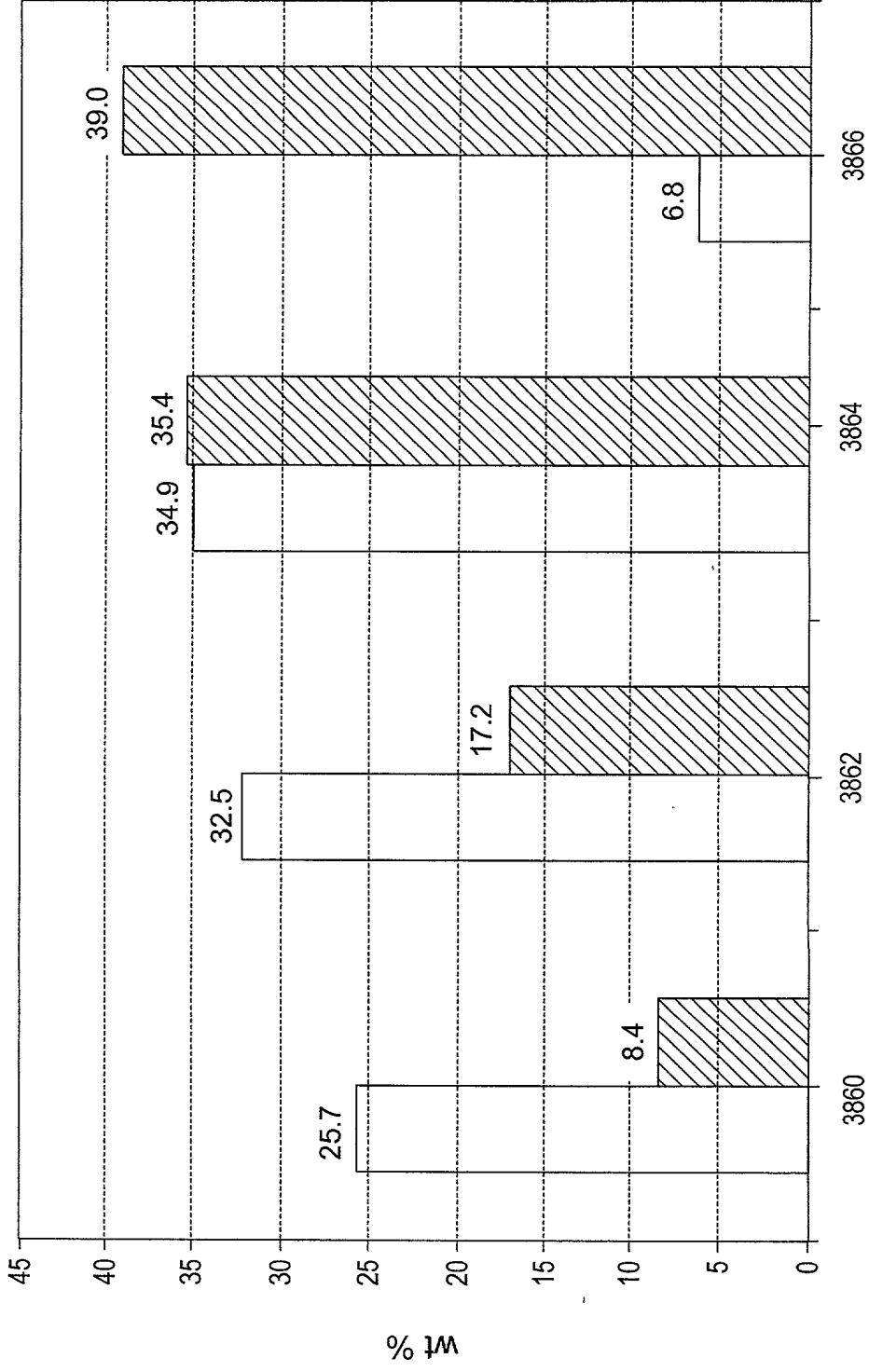


FIG. 105

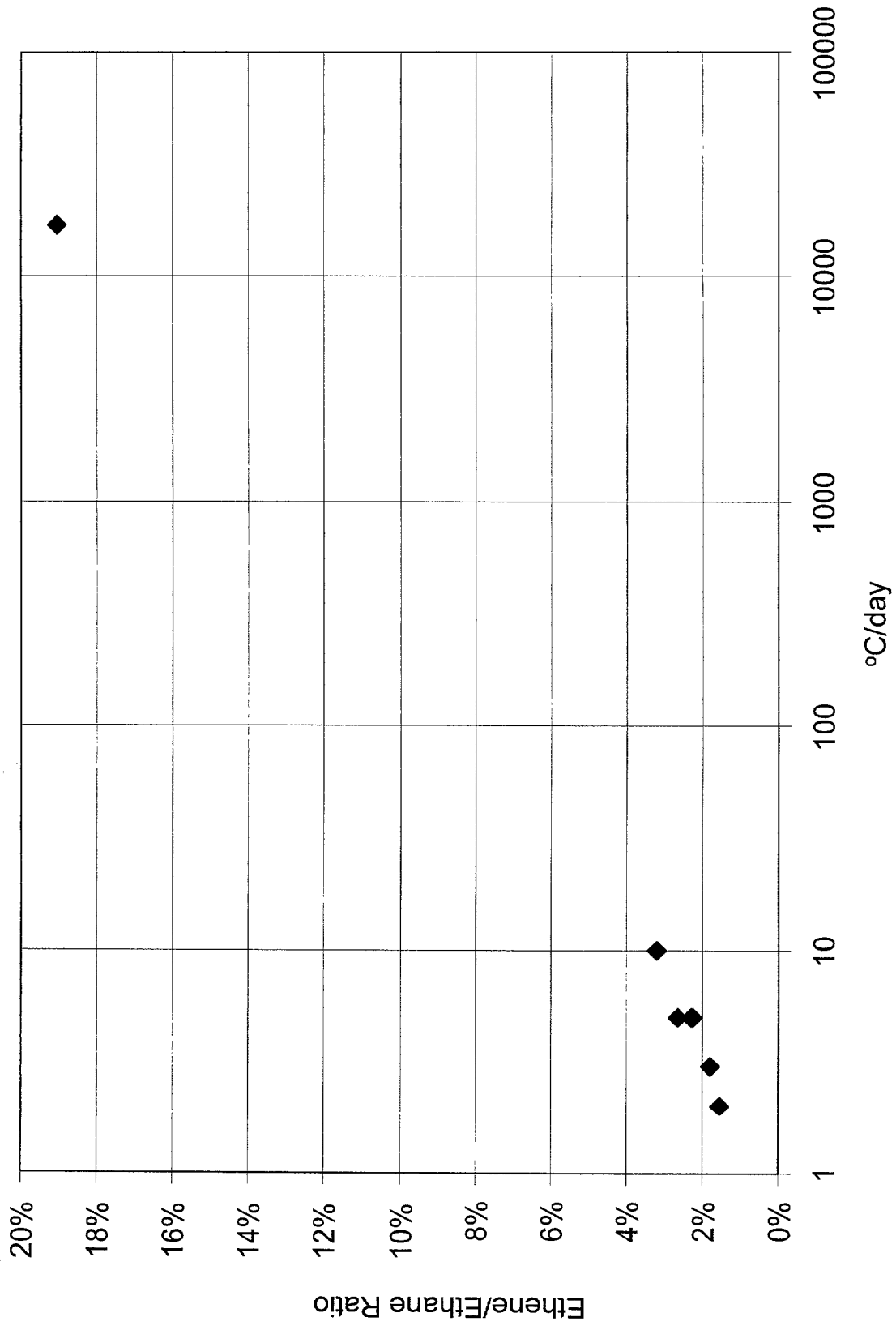


FIG. 106

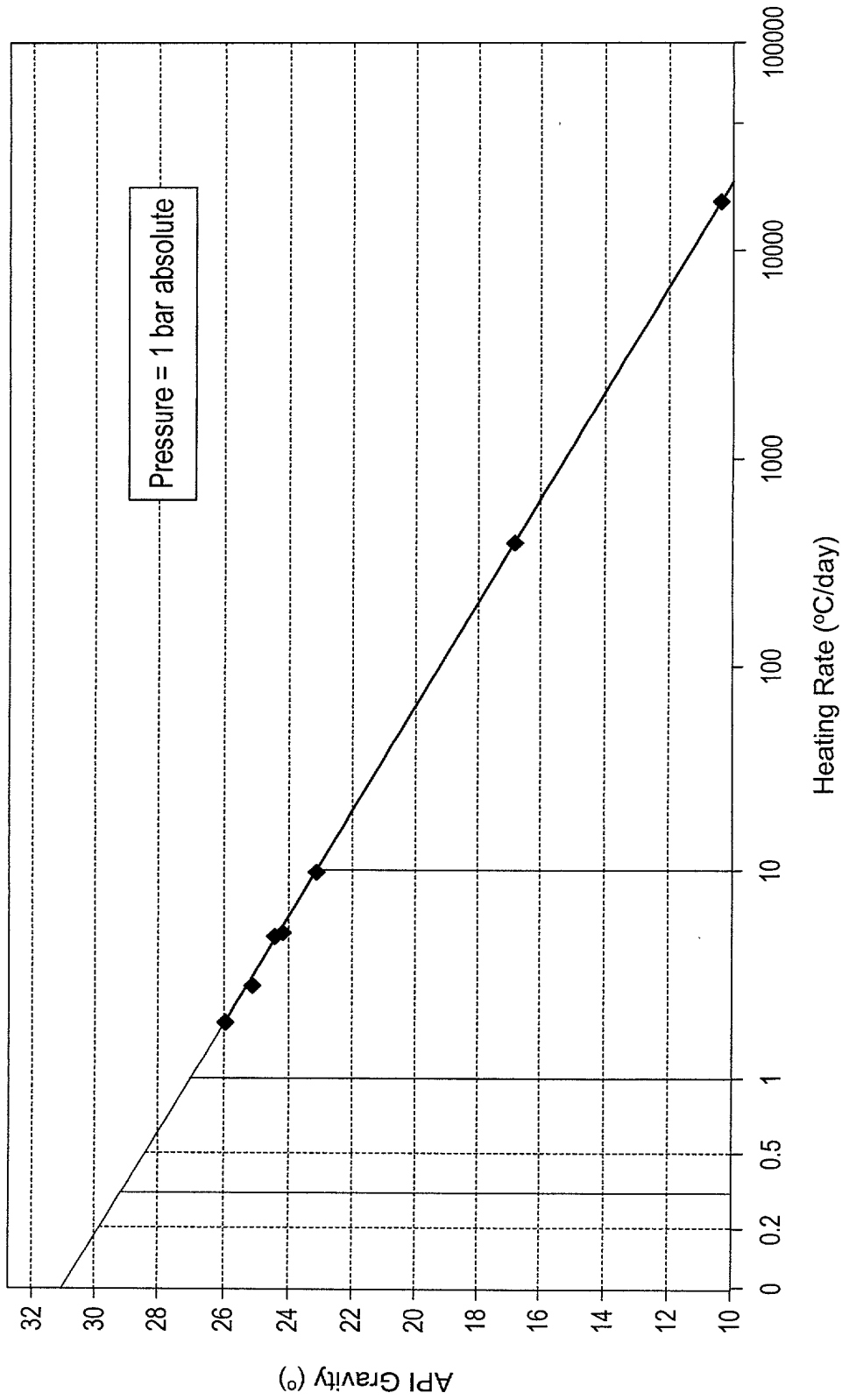


FIG. 107

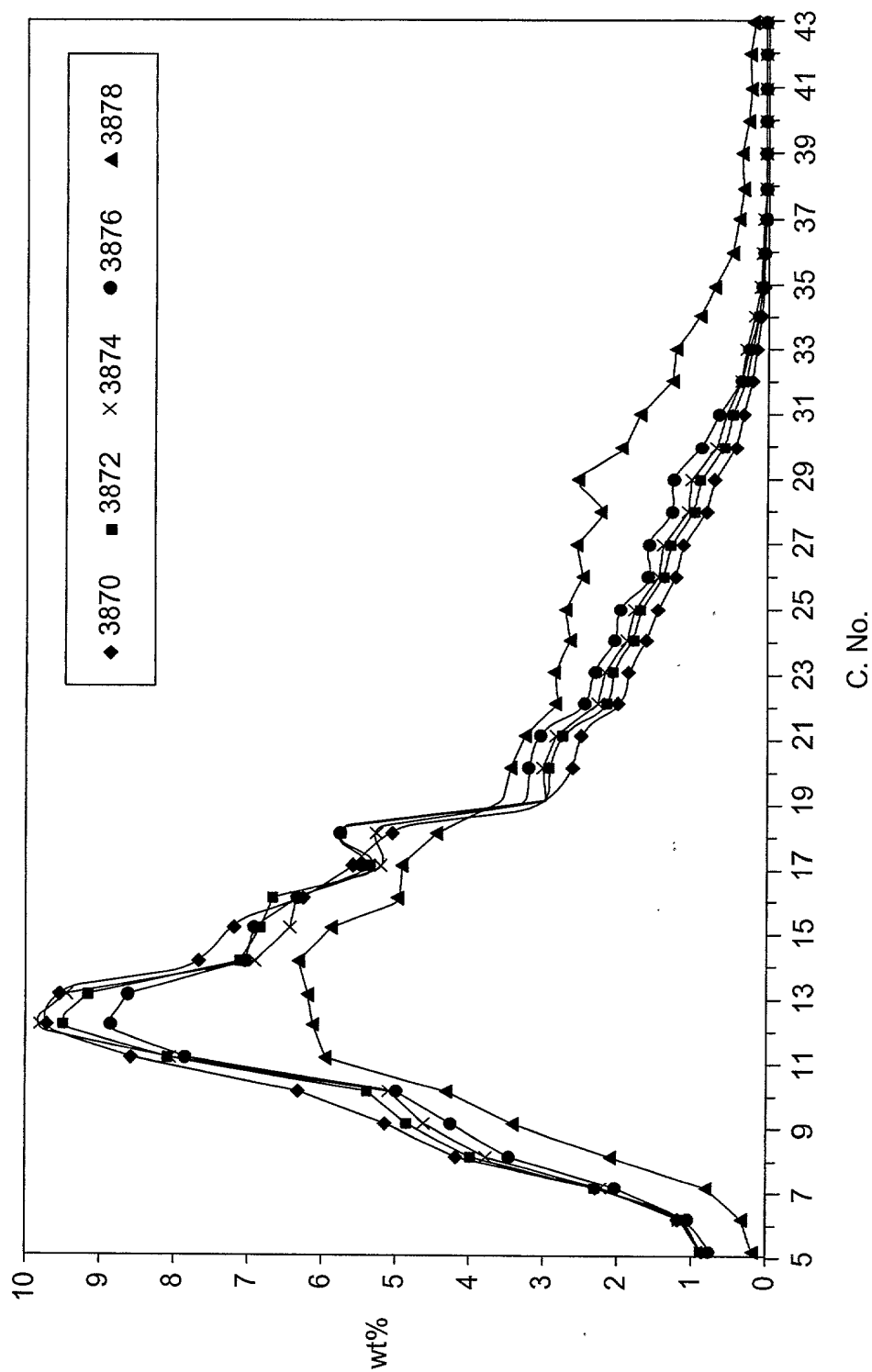


FIG. 108

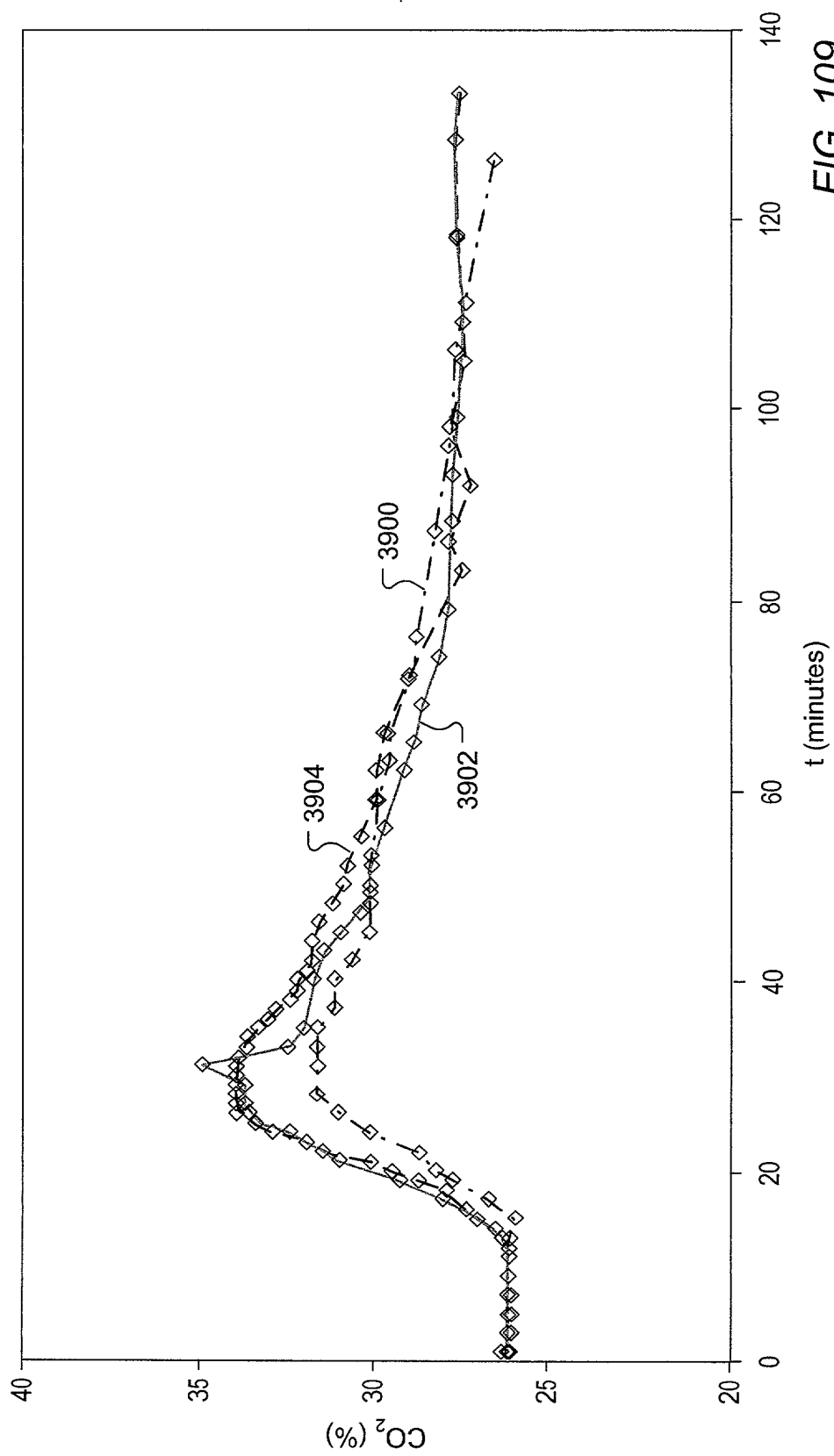


FIG. 109

FIG. 110

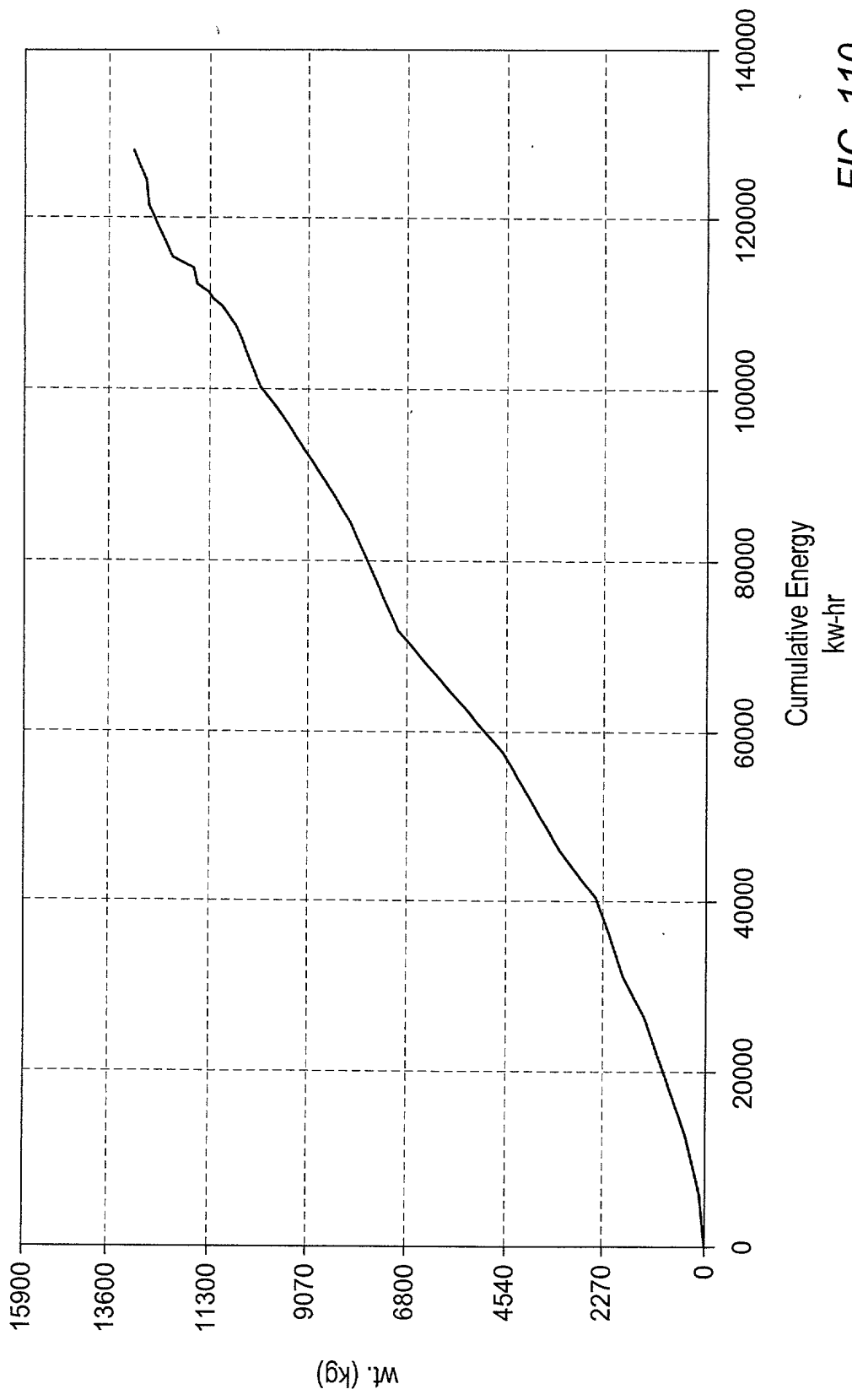


FIG. 110

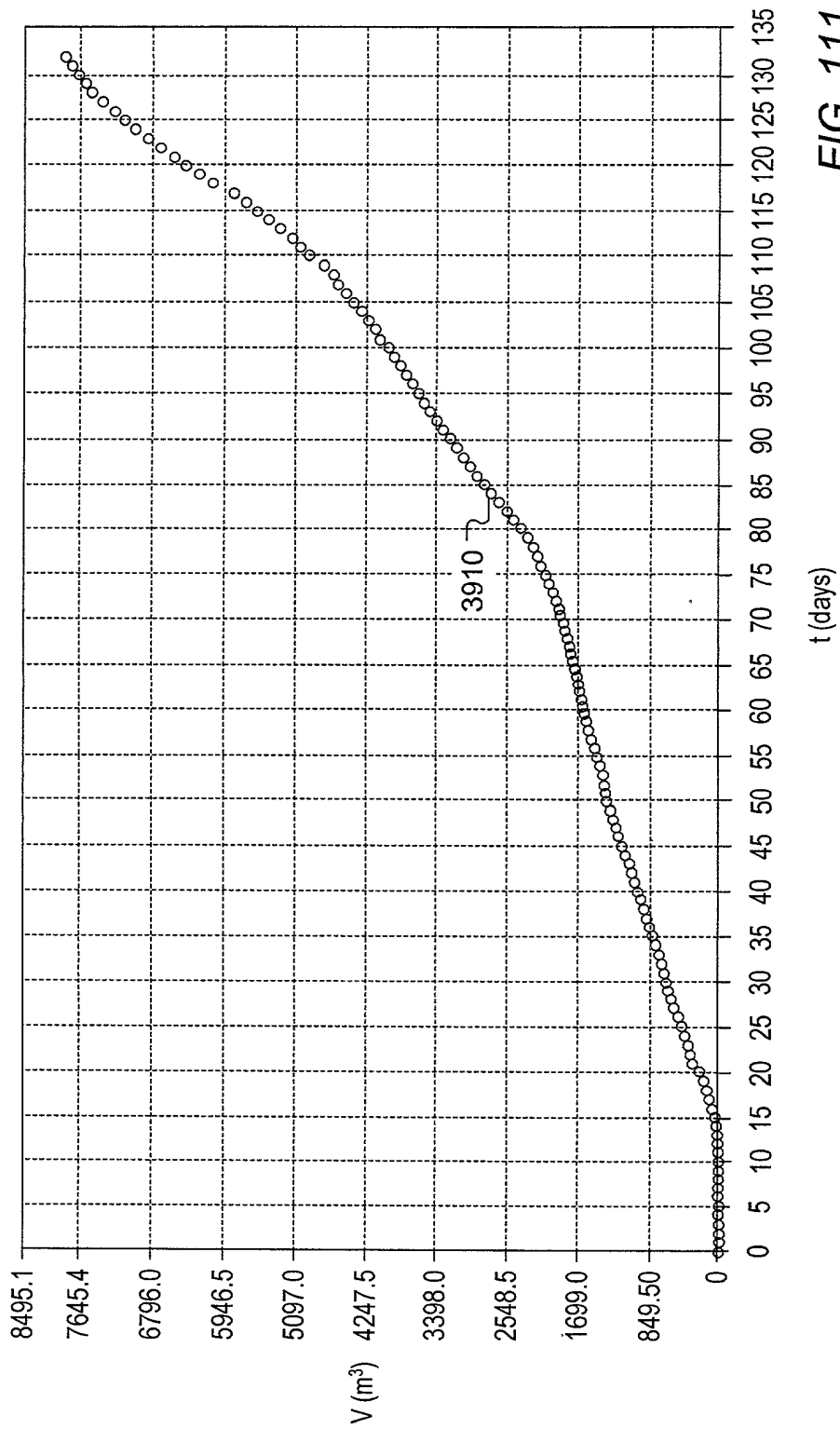


FIG. 111

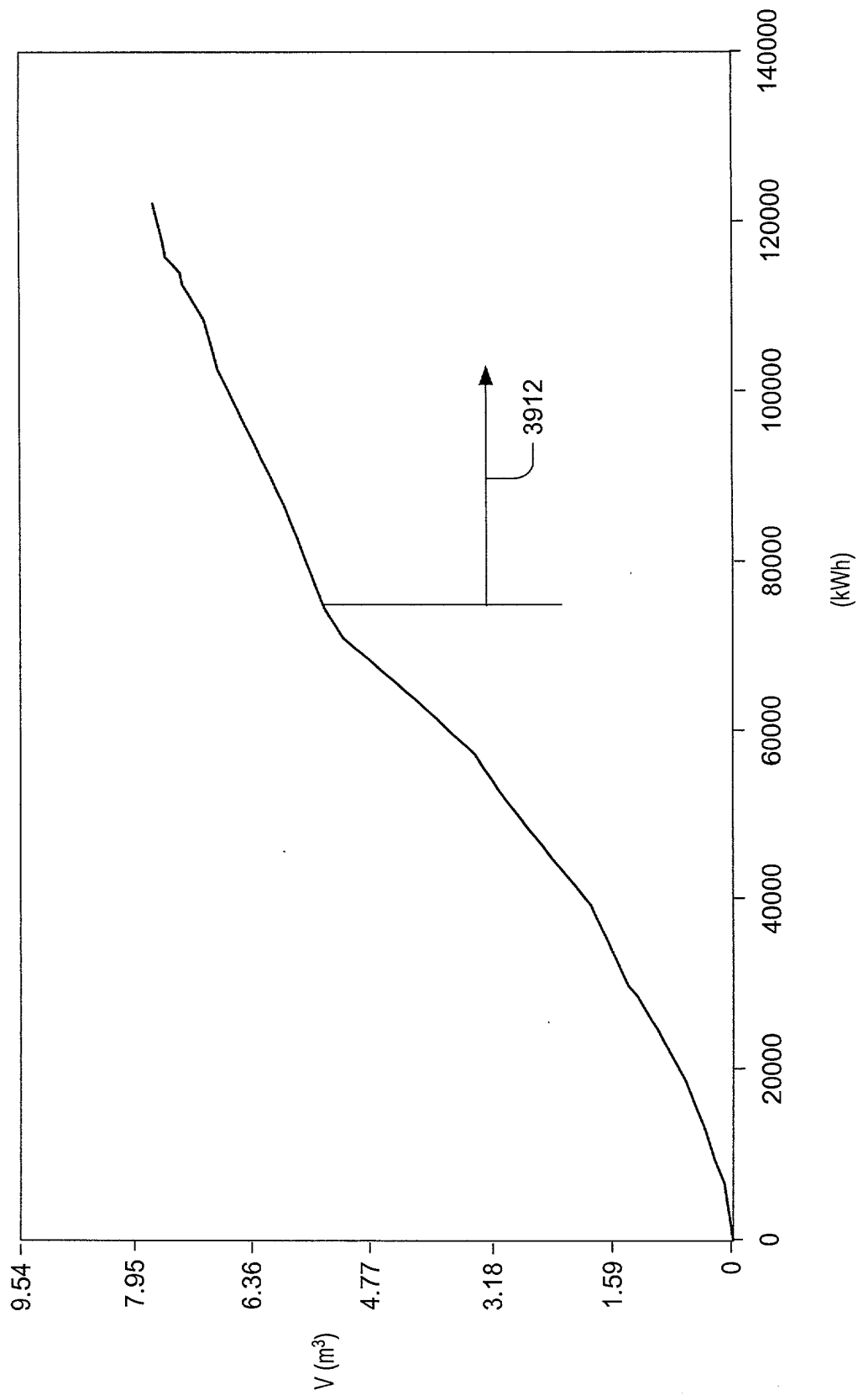


FIG. 112

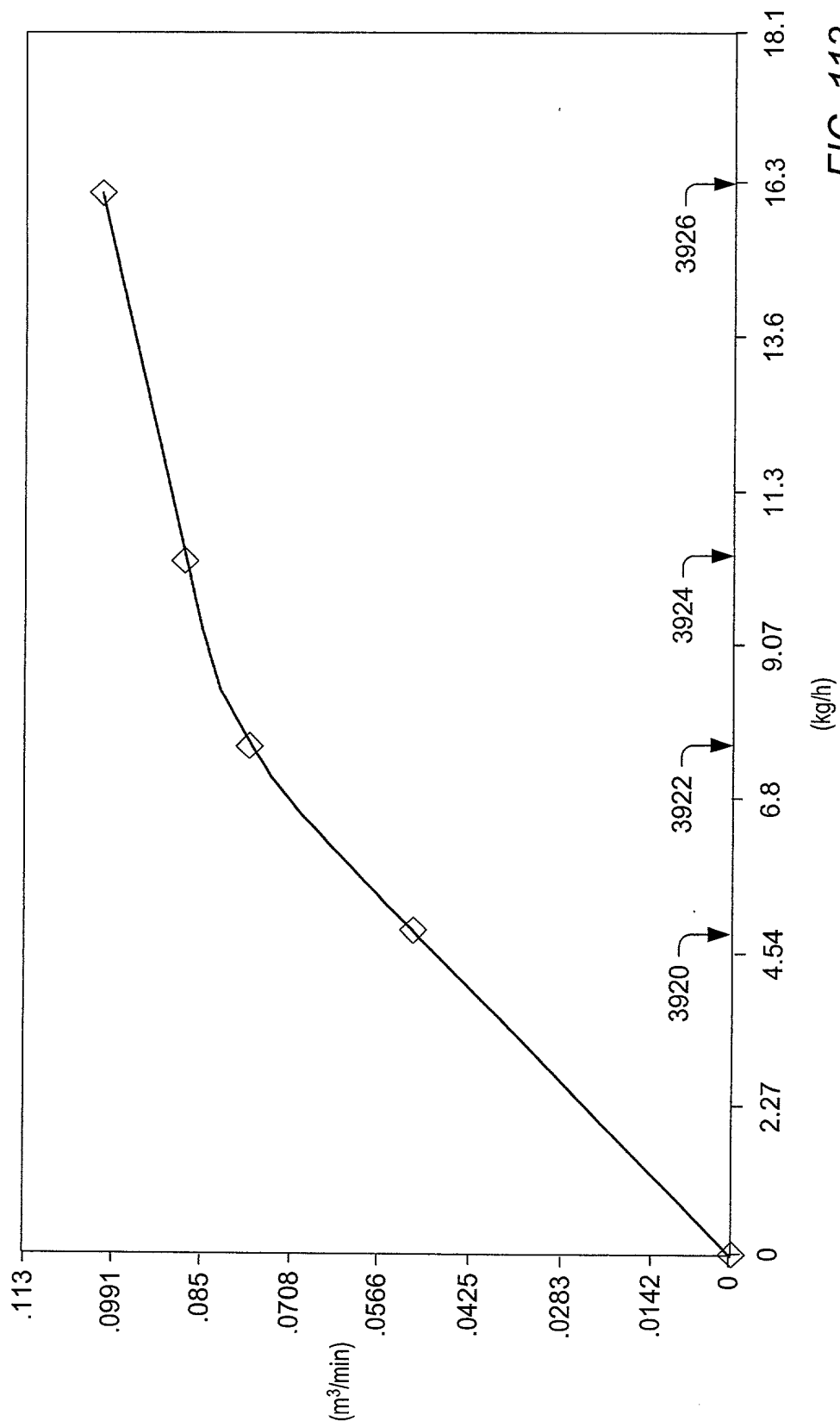


FIG. 113

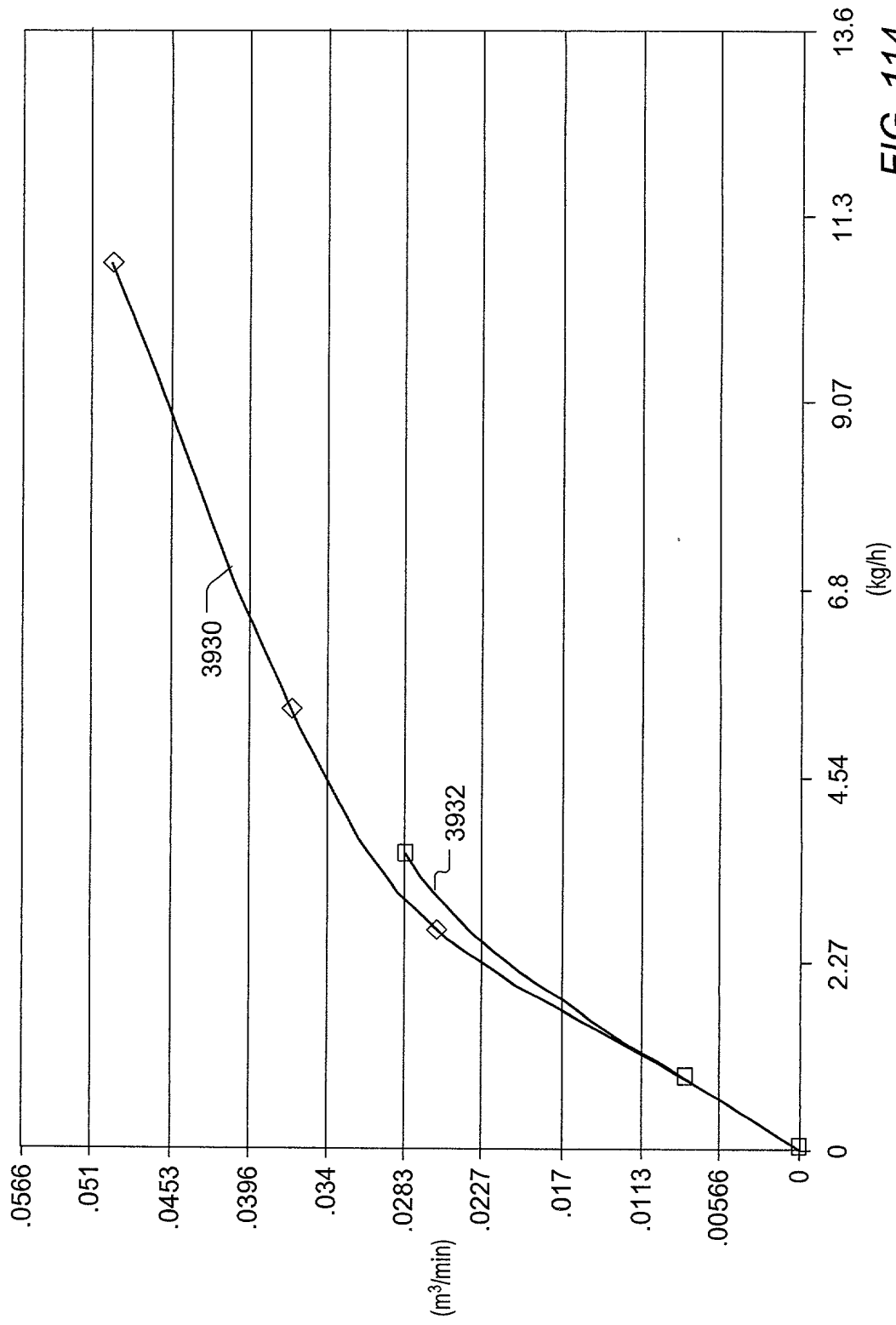


FIG. 114

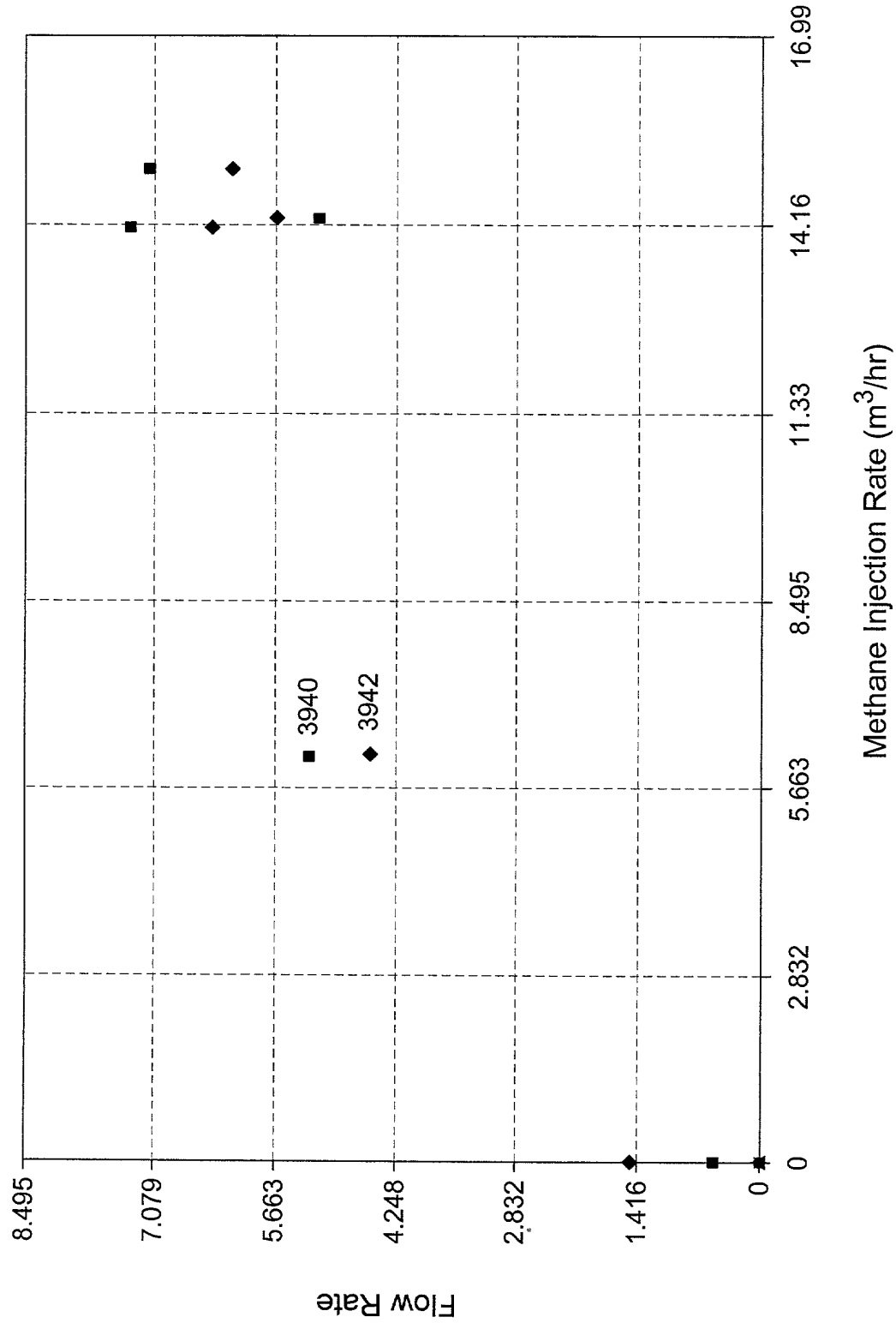


FIG. 115

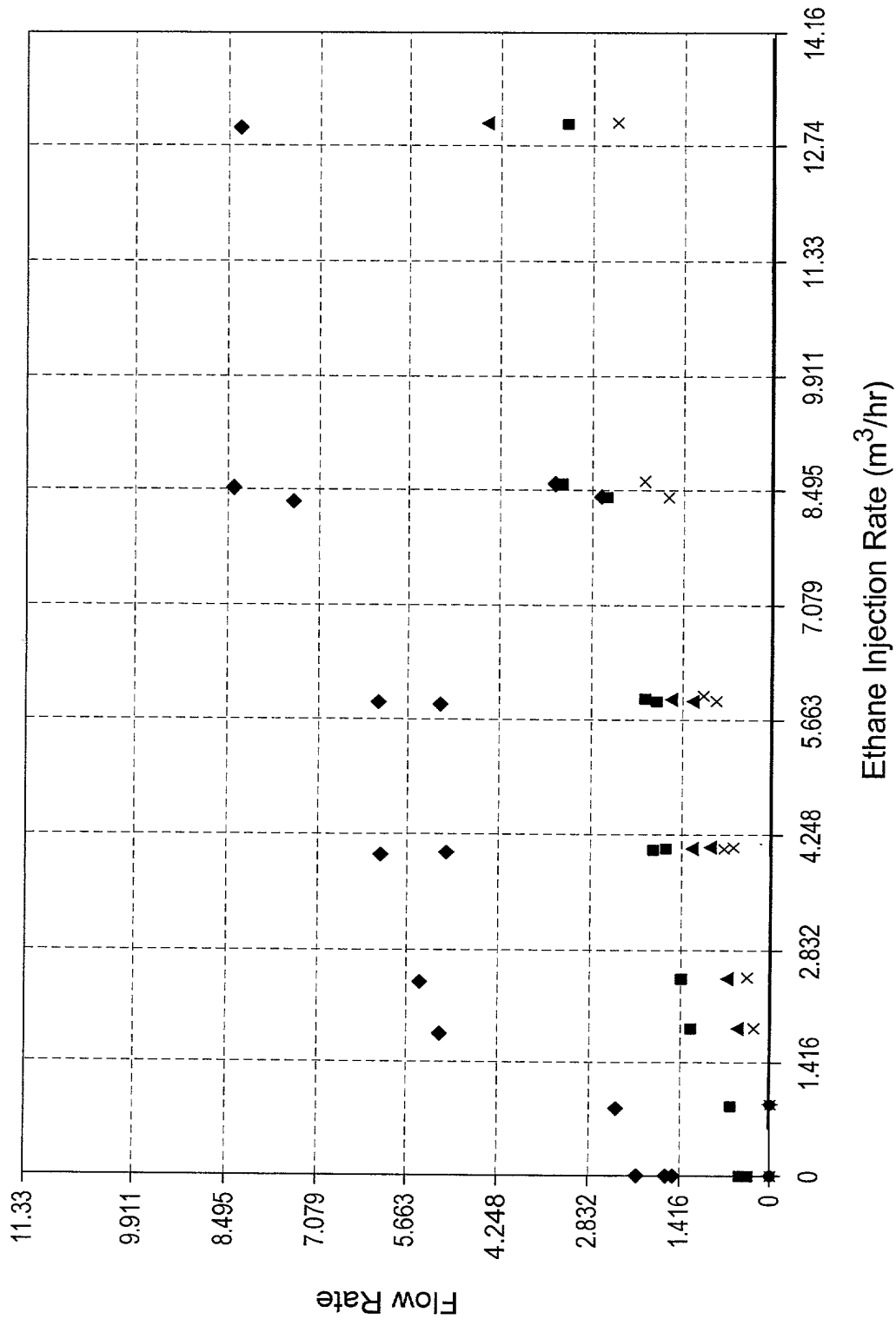


FIG. 116



FIG. 117

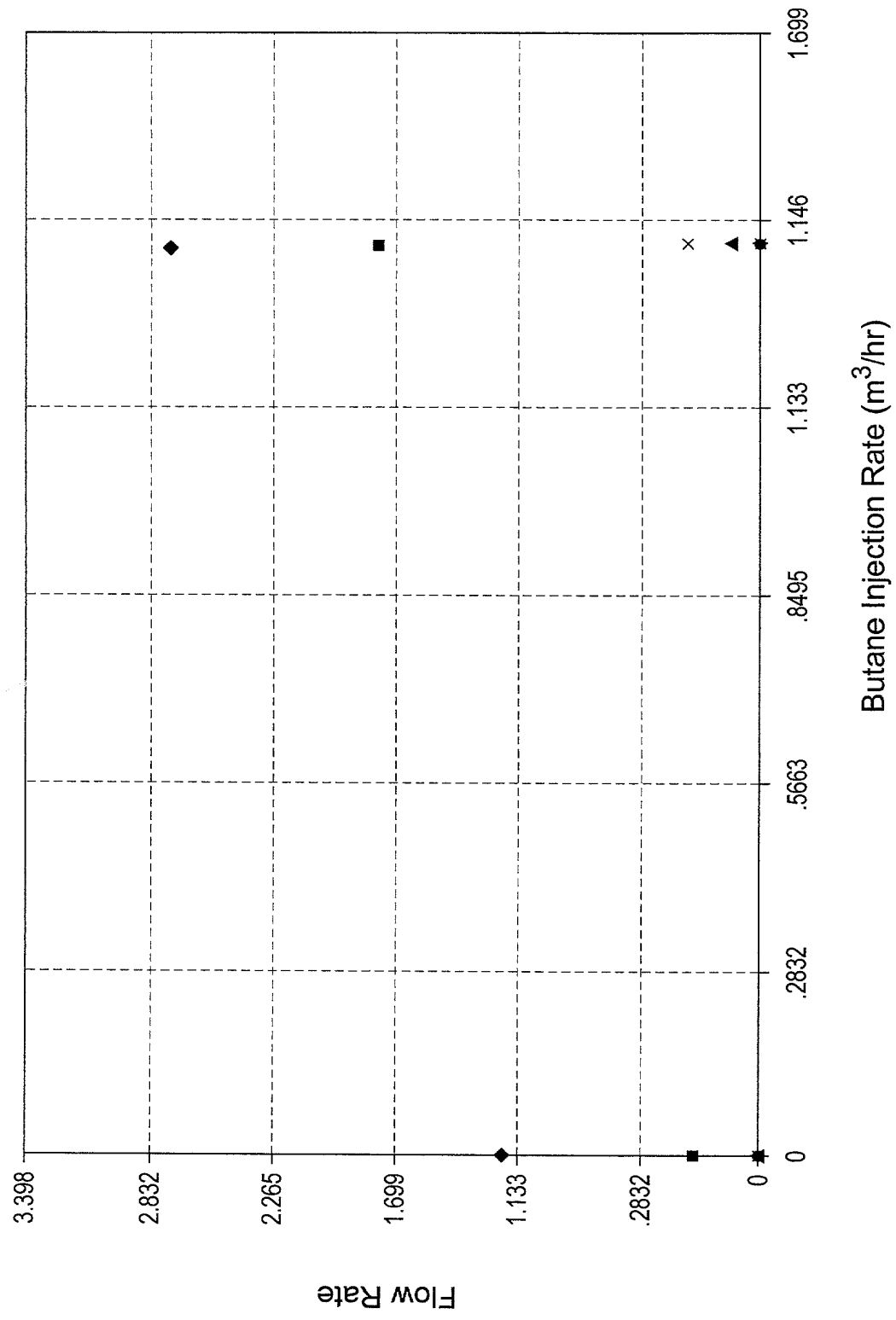


FIG. 118

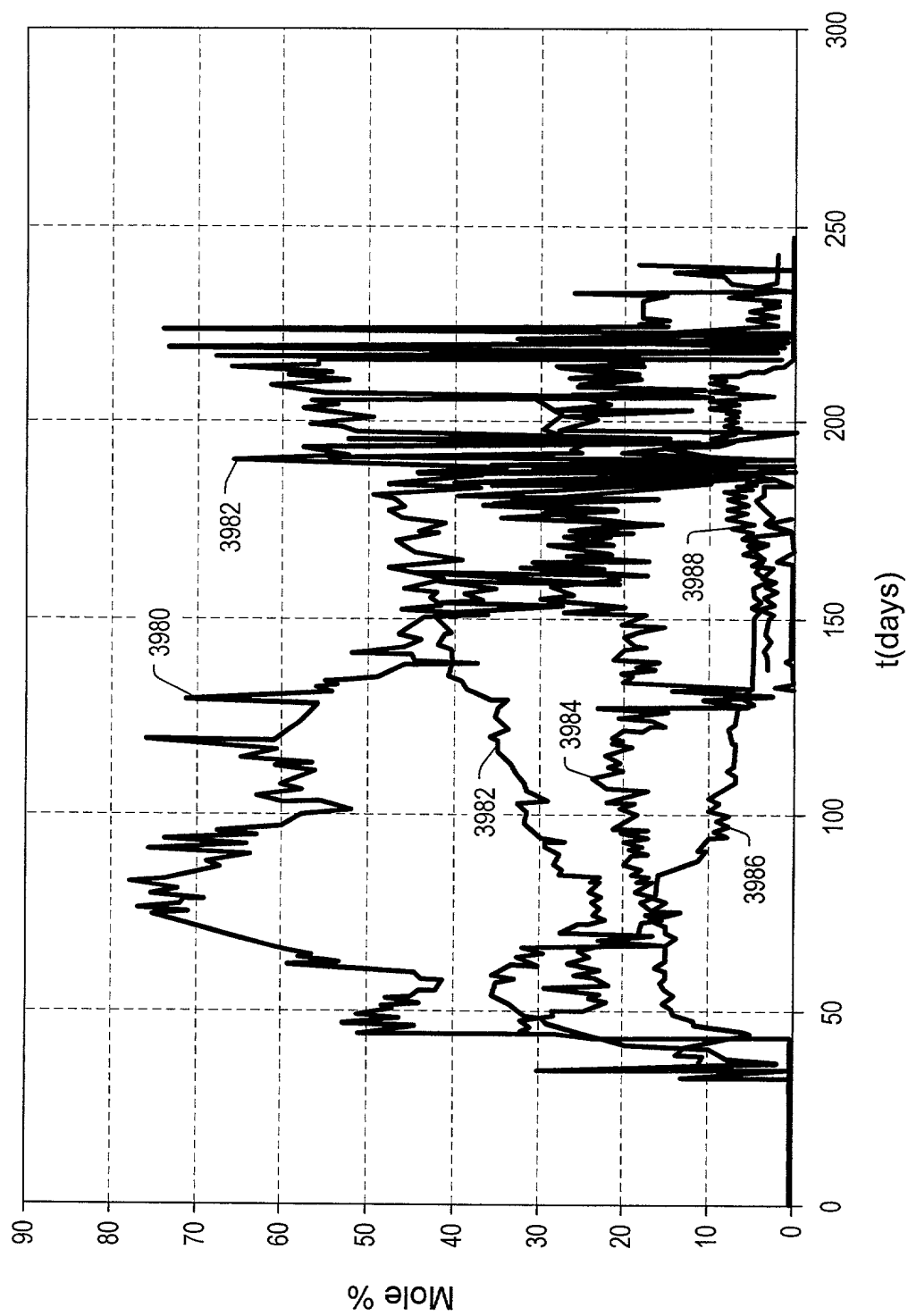


FIG. 119

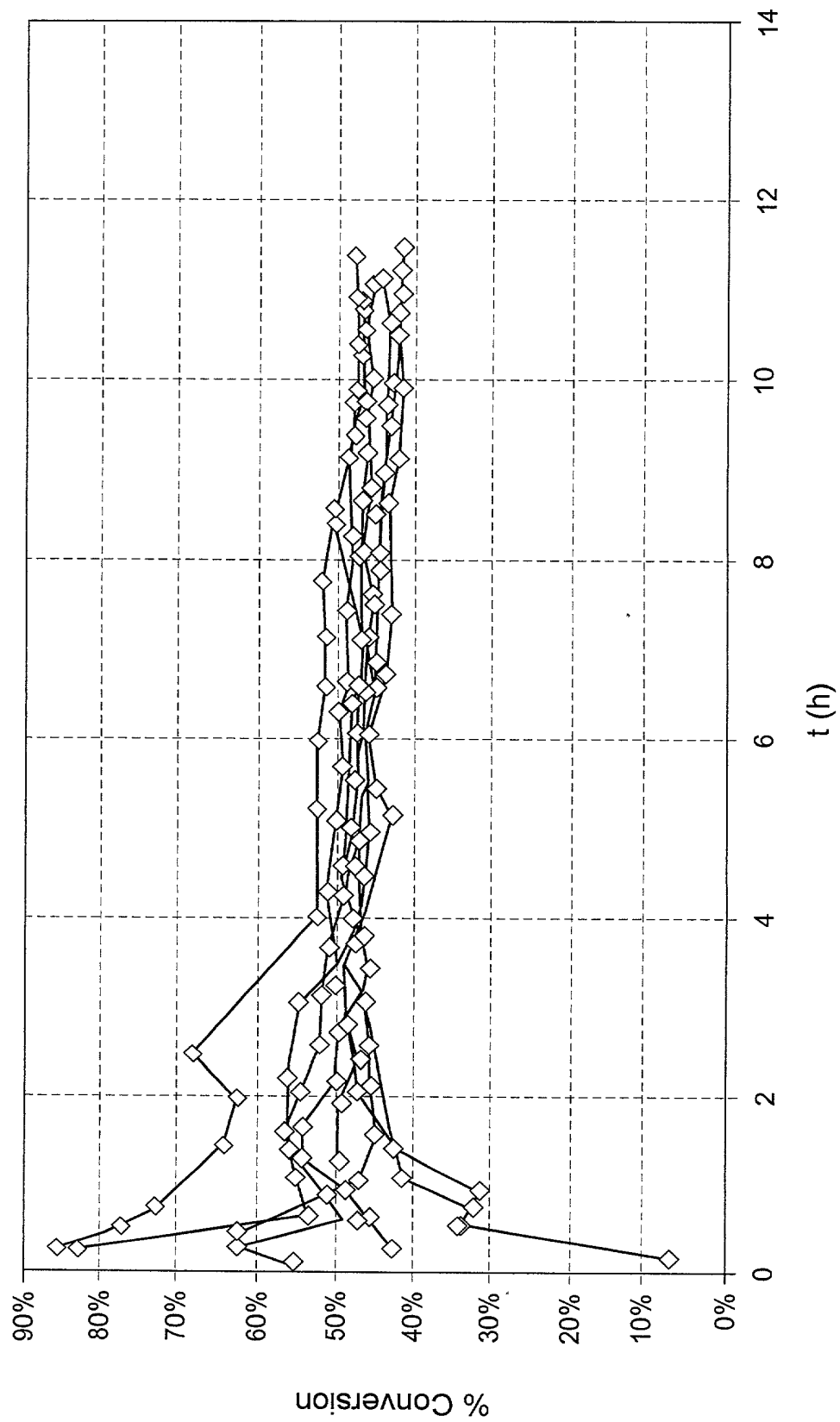


FIG. 120

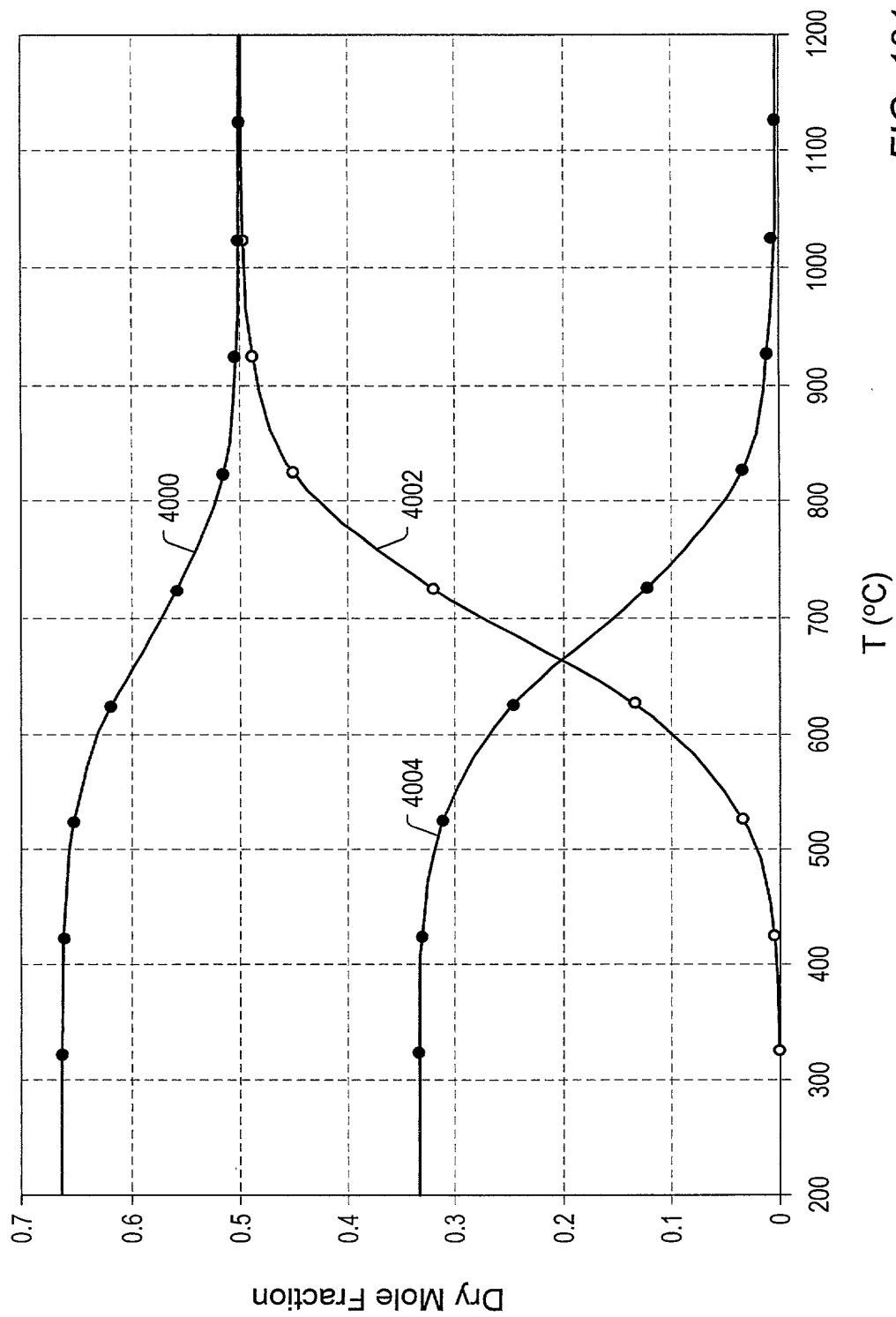


FIG. 121

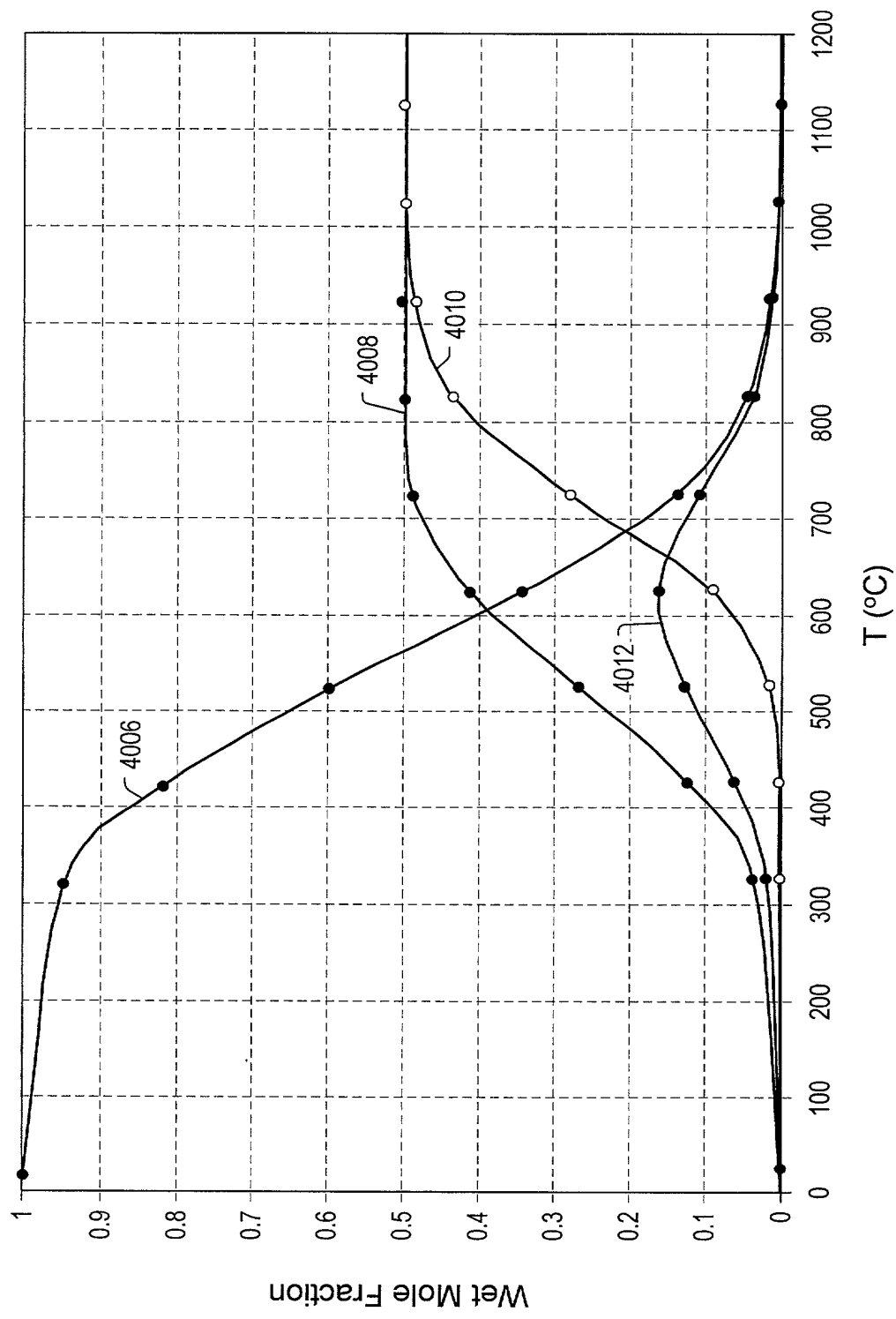
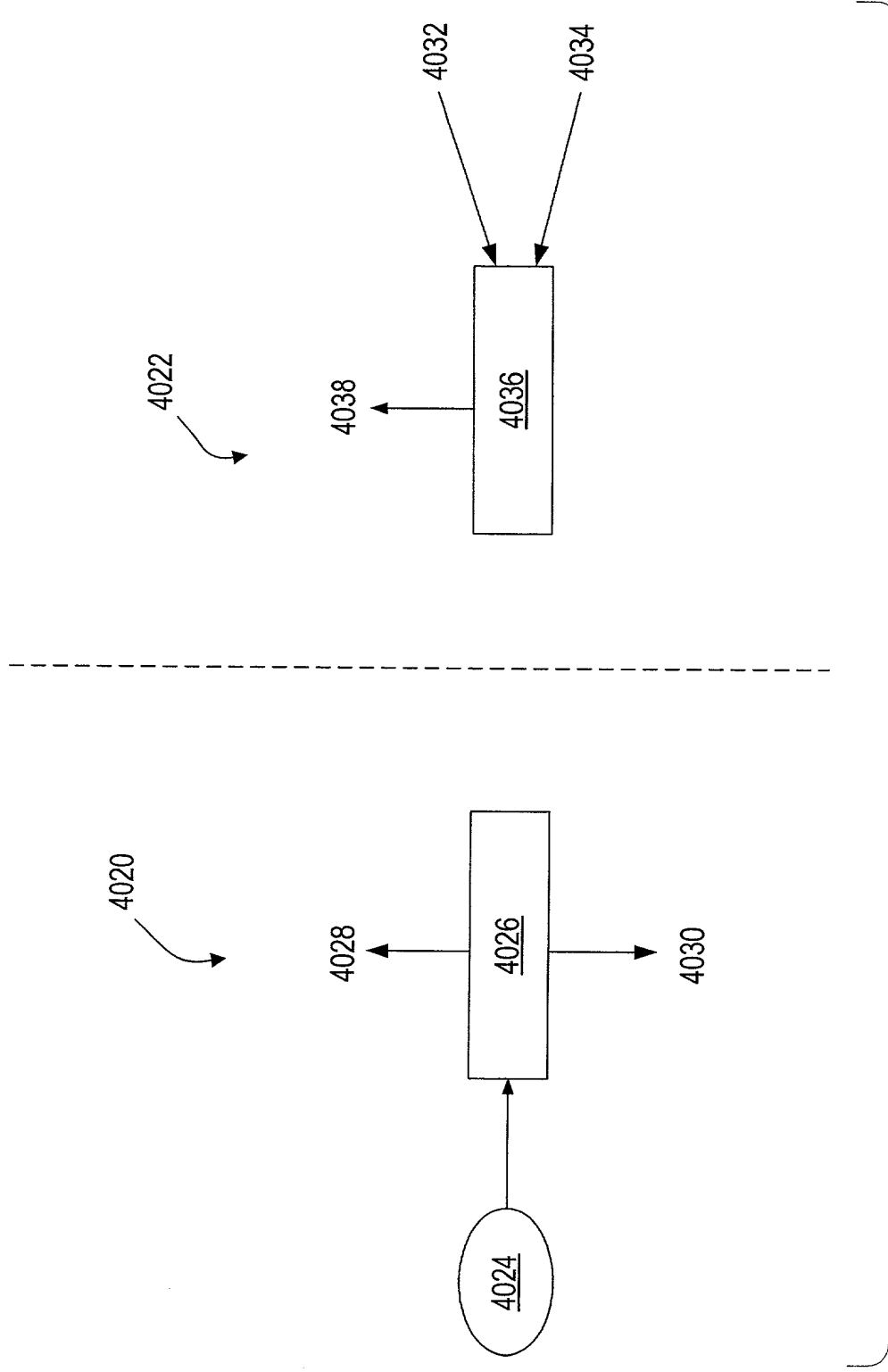


FIG. 122



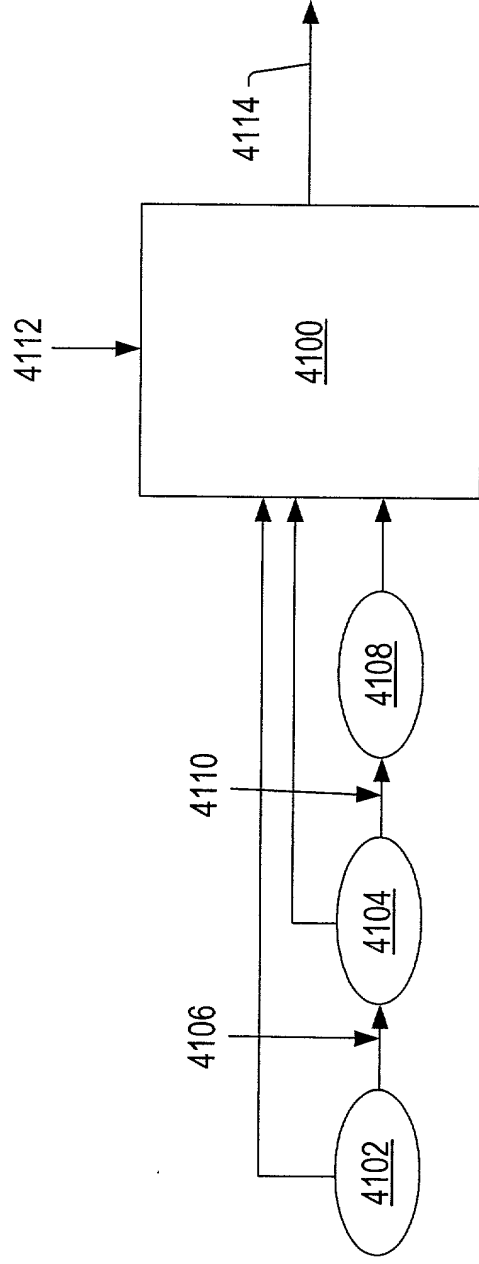


FIG. 124

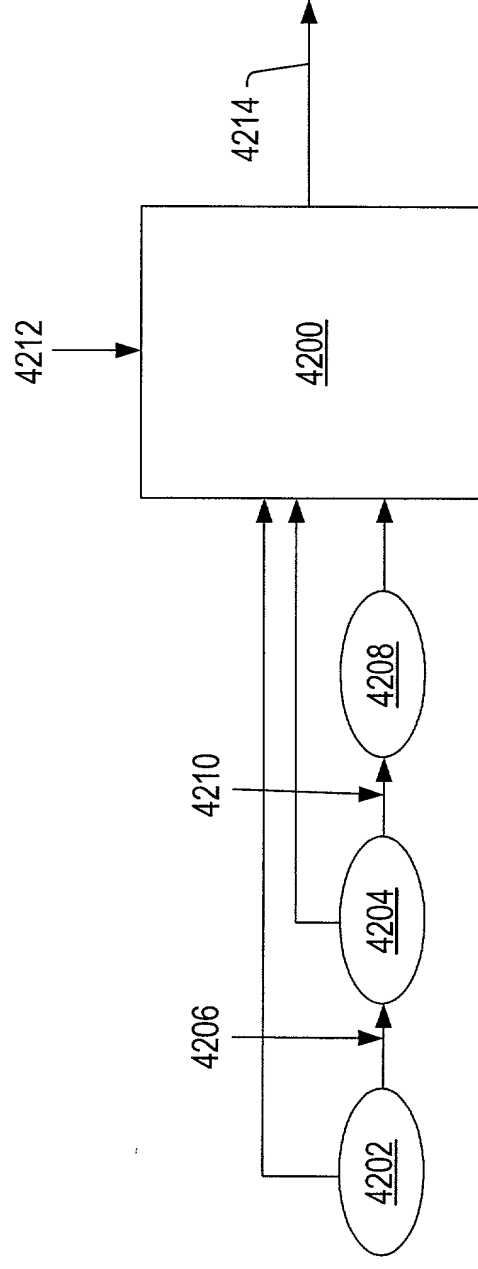


FIG. 125

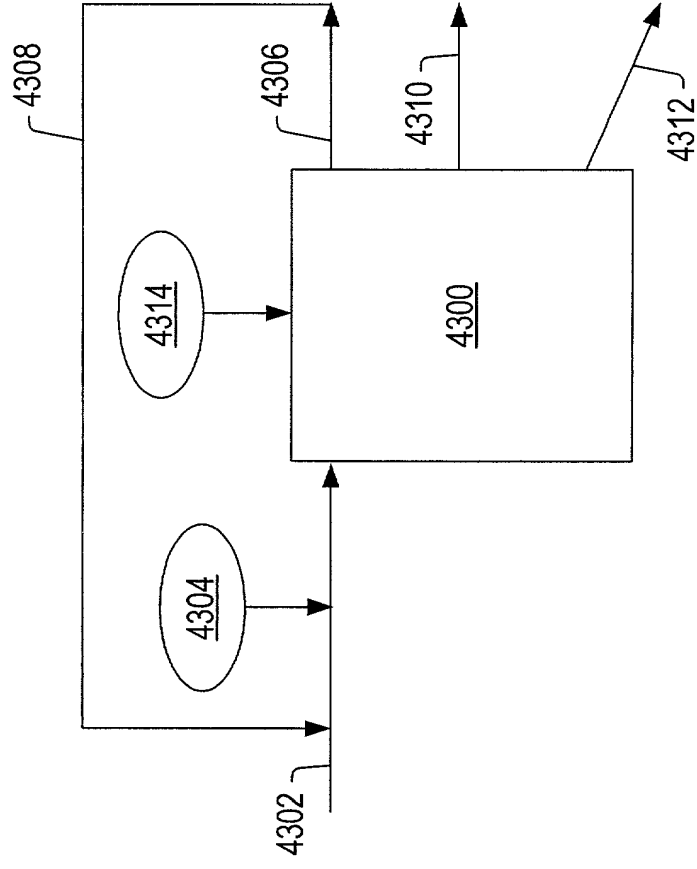


FIG. 126

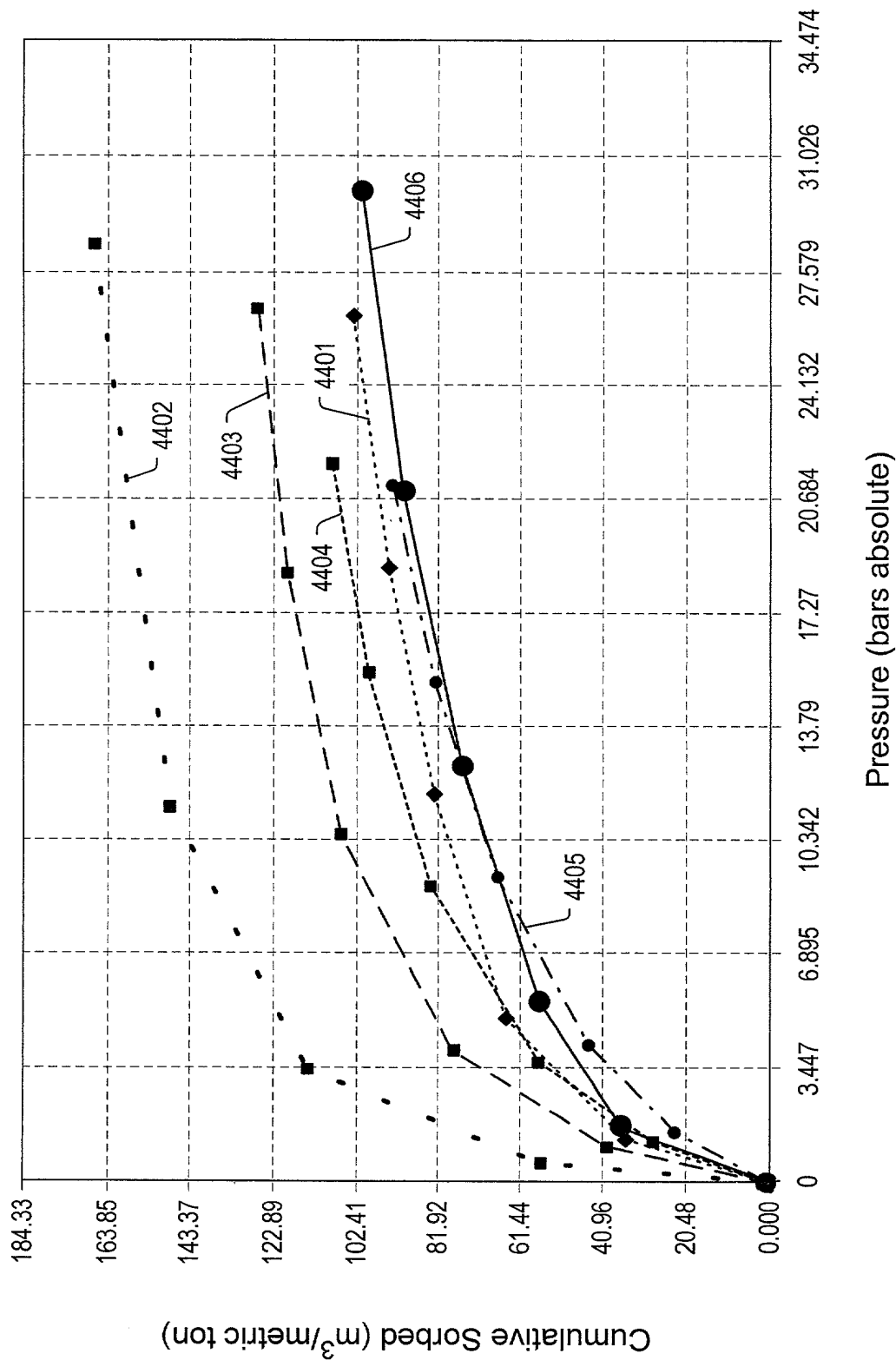


FIG. 127

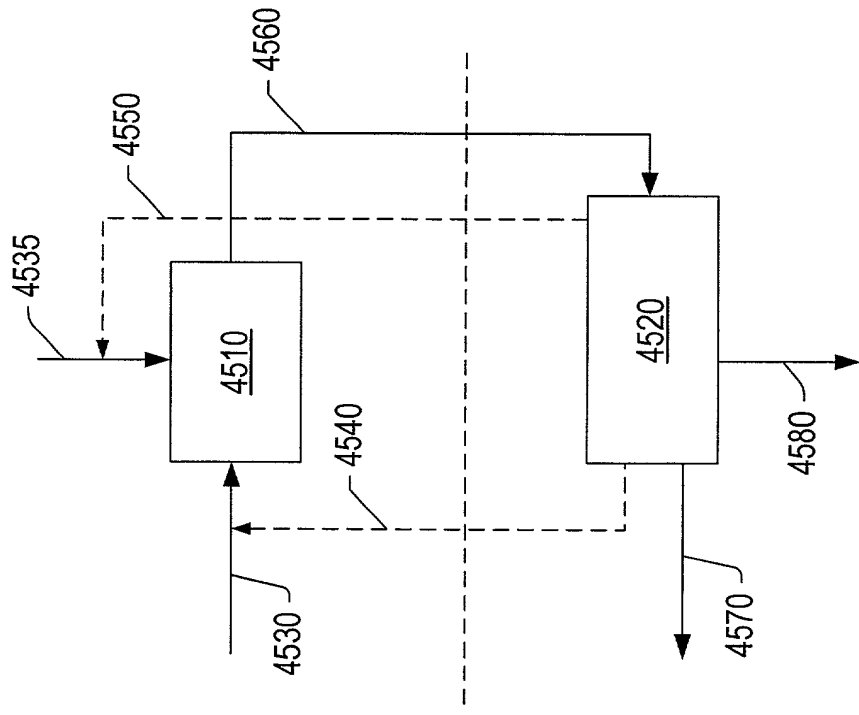


FIG. 128

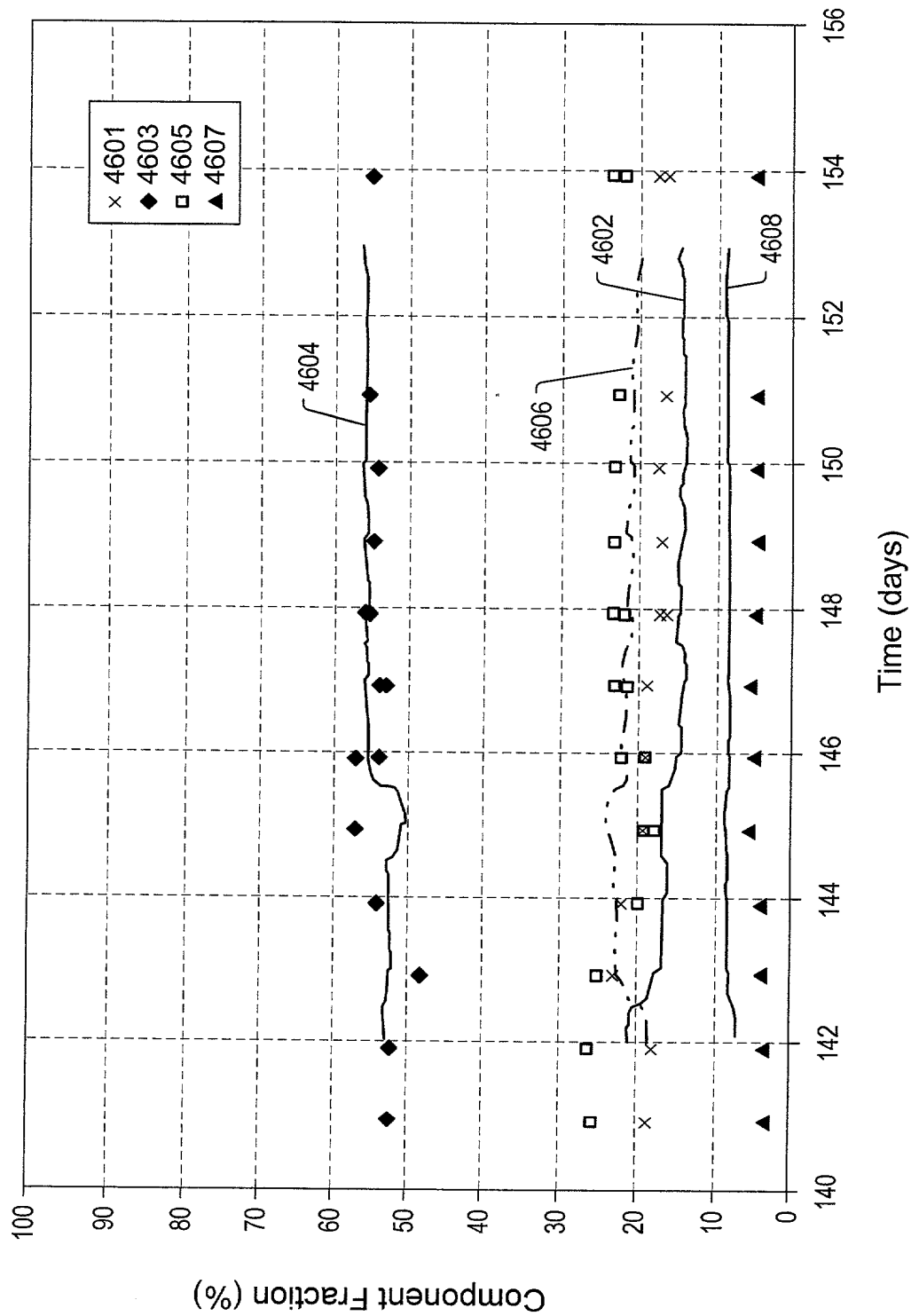


FIG. 129

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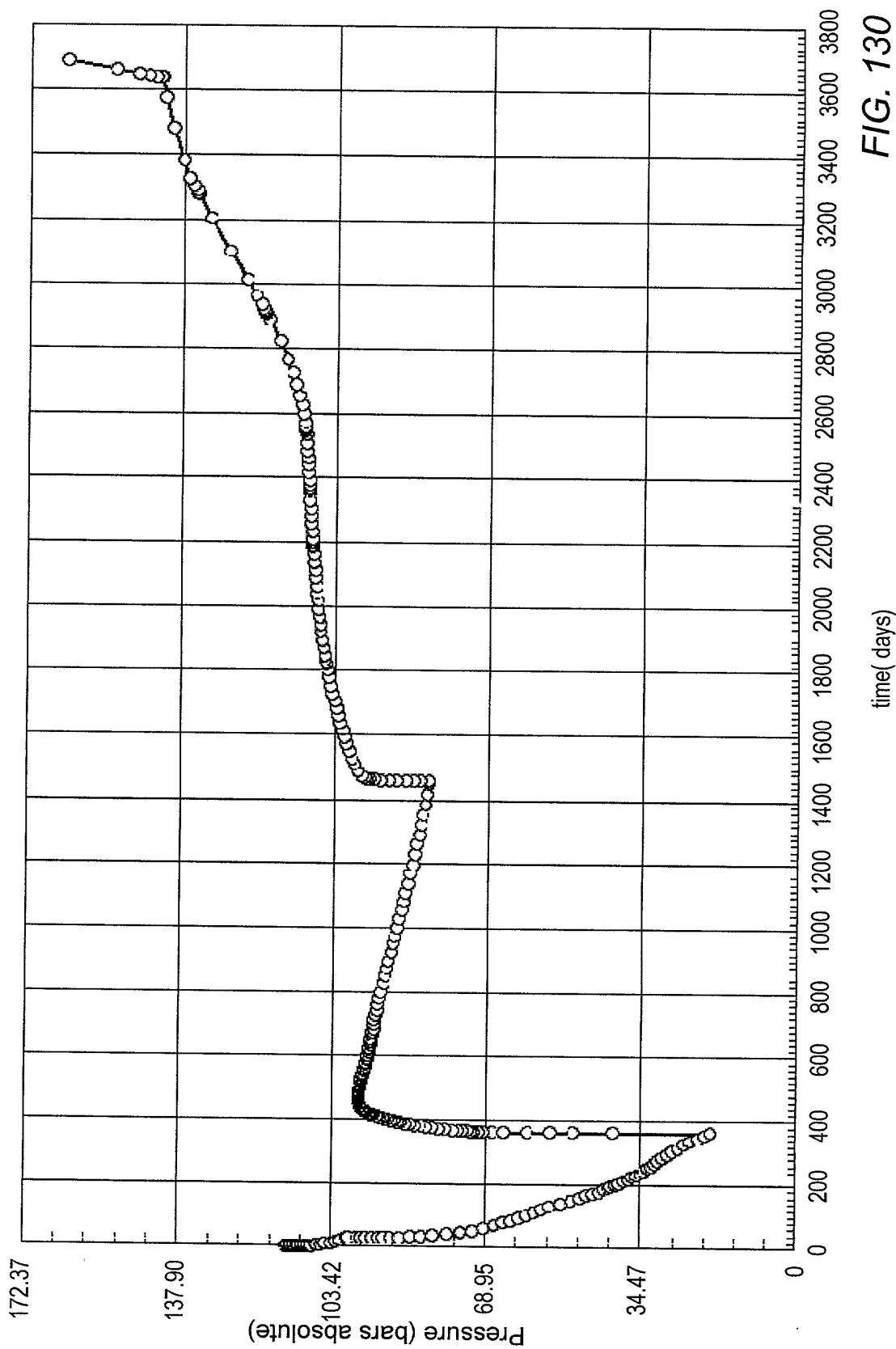


FIG. 130

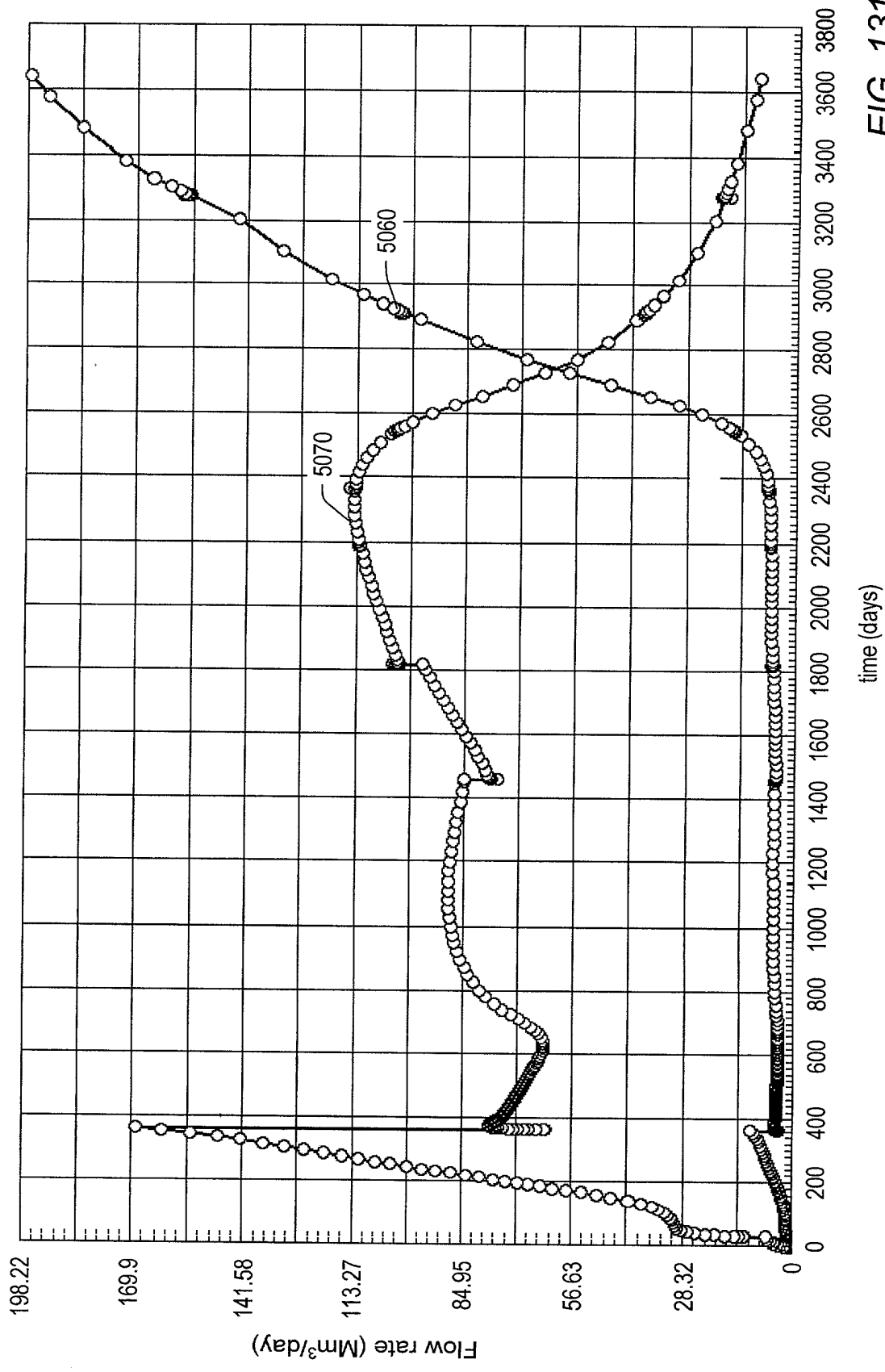


FIG. 131

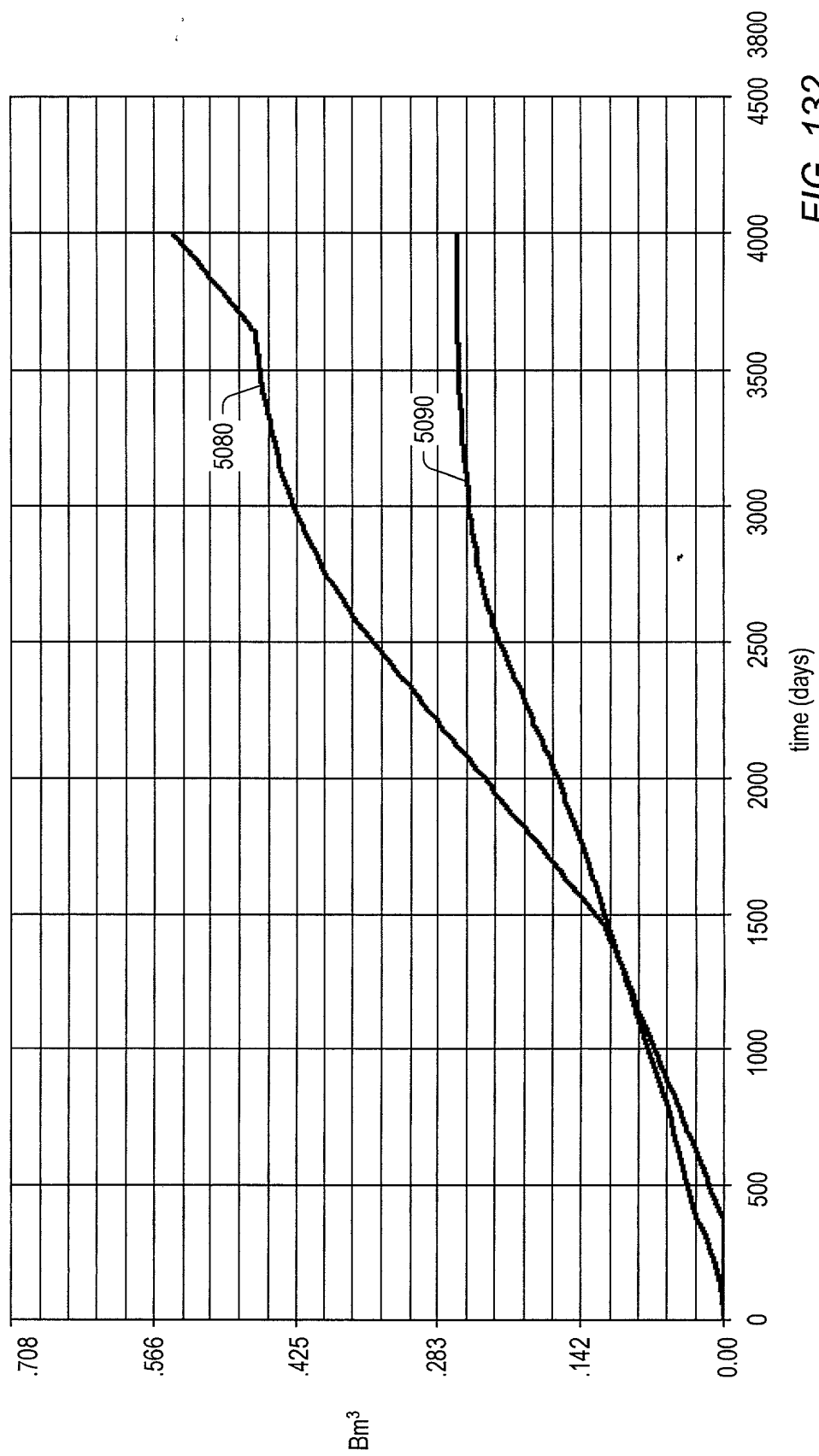


FIG. 132

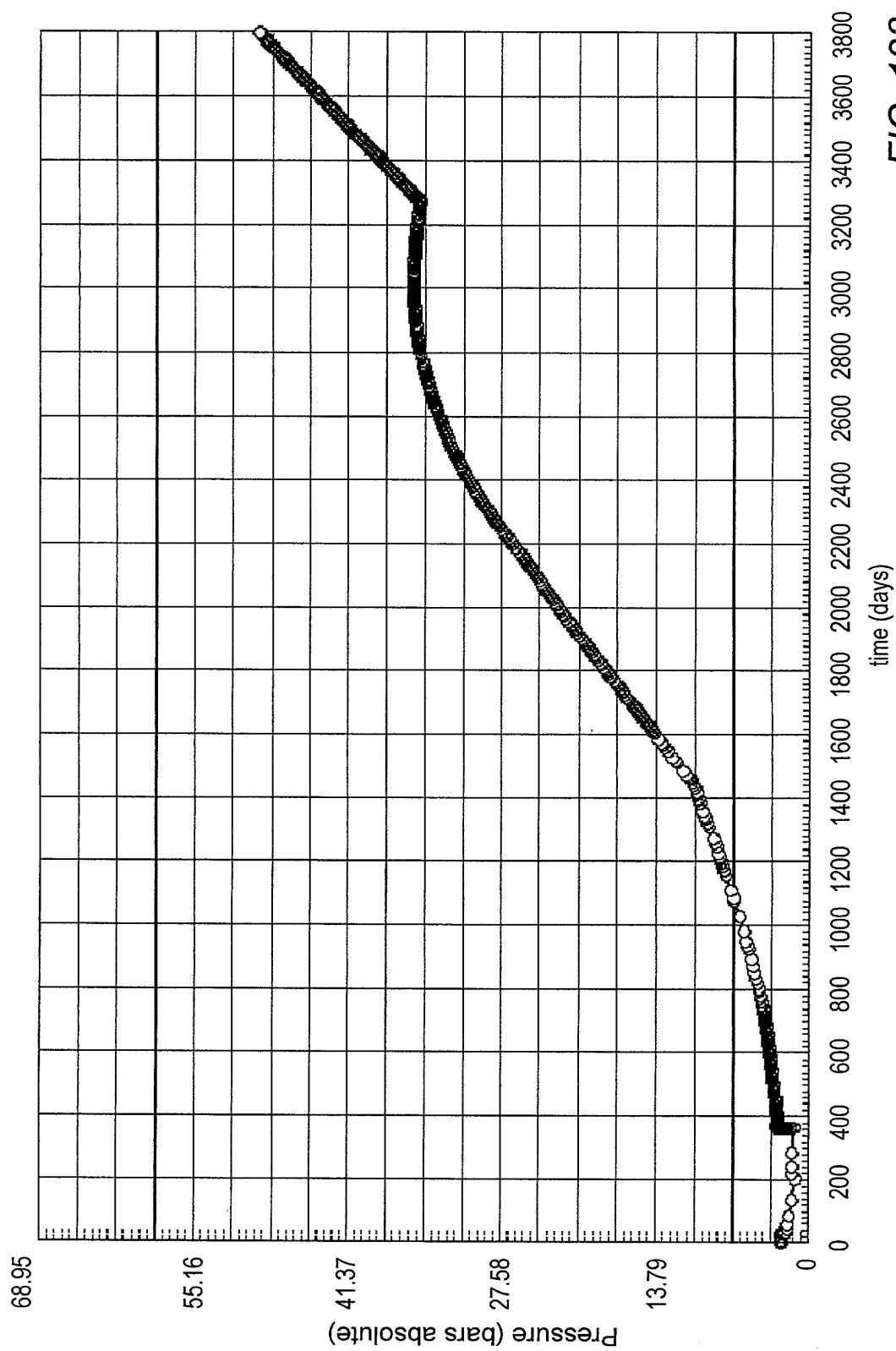


FIG. 133

FIG. 134

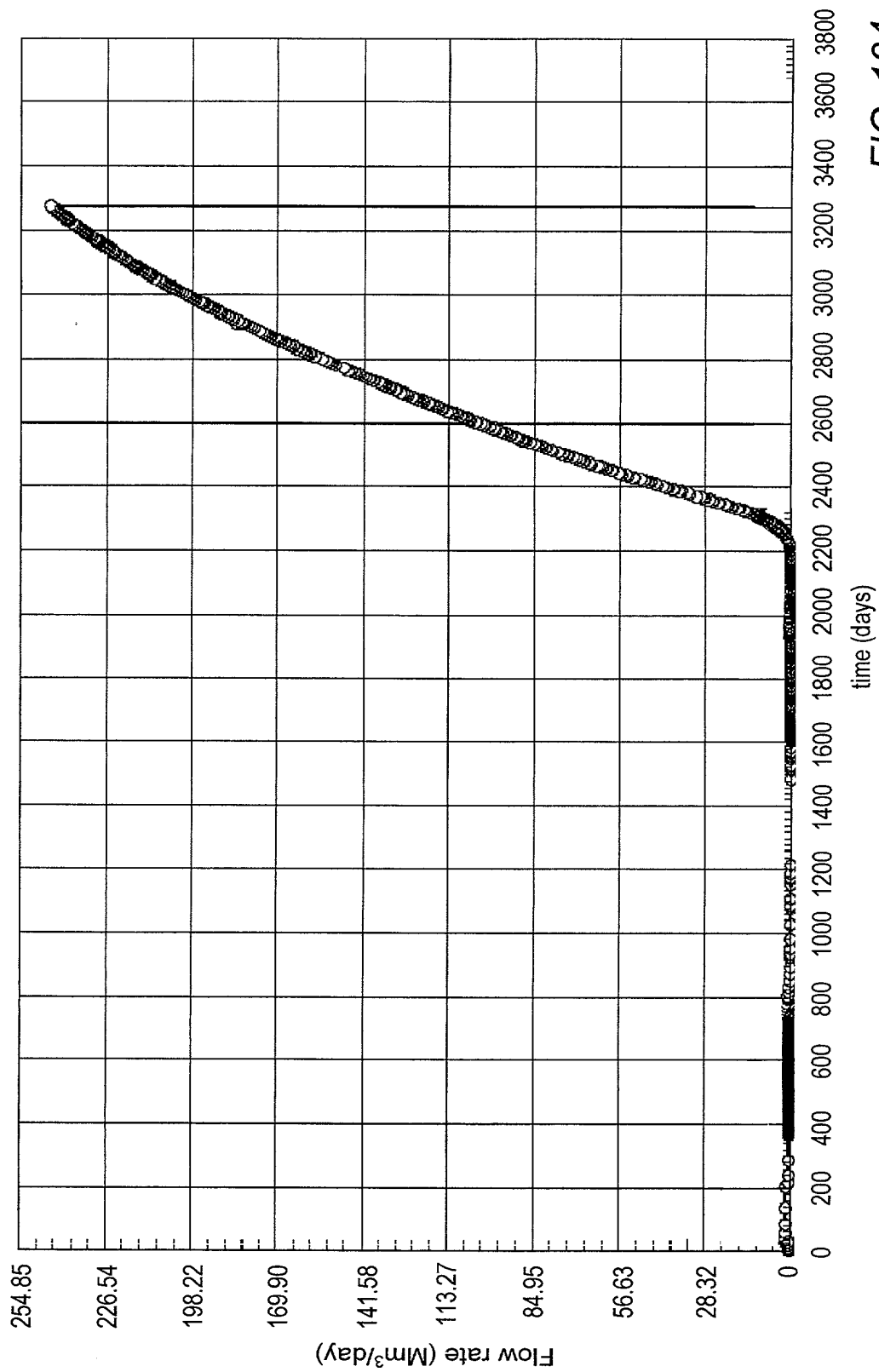


FIG. 134

FIG. 135

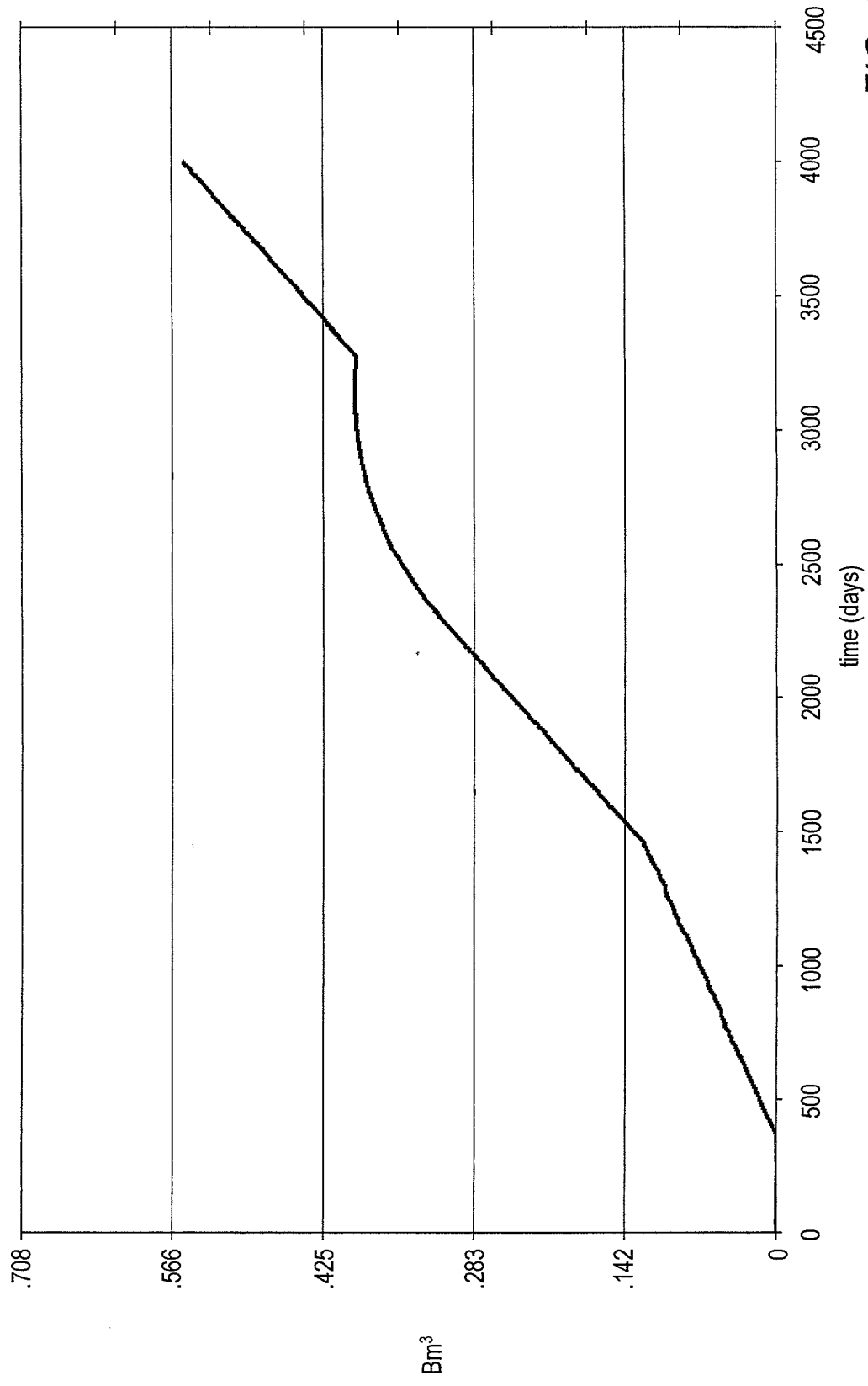


FIG. 135